

Hisense

Hisense

Control Switch Technical and Service Handbook



Control Switch

Technical and Service Handbook

Hisense

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Specifications in this catalogue are subject to change without notice,in order that Hisense may bring the latest innovations to their customers.

TC2201702B

Models:

Wired Remote Control Switch

HYXE-J01H
HYXE-F01H
HYXE-G01H
HYXE-M01H

Central Control

HYDE-E01H (7-Day Timer)
HYJE-D02H
HCCS-H128H2C1YM (Hi-Dom)
HCCS-H128H2C1NM (Hi-Dom)
HCCS-H247R4C1E (M-Concentrator)
HYJ-J01H (One Key Controller)
HYJM-S01H(Central Controller)

Wireless Remote Control Switch & Wireless Receiver

HYE-Q01
HYE-L01
HYE-W01
HYRE-T01H HYRE-T02H
HYRE-V01H HYRE-V02H
HYRE-X01H

TC2201702B

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IMPORTANT NOTICE AND SAFETY PRECAUTIONS

- HISENSE pursues a policy of continuing improvement in design and performance of products. The right is therefore reserved to vary specifications without notice
- HISENSE cannot anticipate every possible circumstance that might involve a potential hazard.
- This cooling only air conditioner is designed for standard air conditioning only . Do not use this cooling only air conditioner for other purpose such as drying clothes, refrigerating foods or for any other cooling process

- Do not install the unit in the following places. It may cause a fire, deformation, corrosion or failure
 - * Places where oil (including machinery oil).
 - * Places where a lot of sulfide gas drifts such as in hot spring.
 - * Places where inflammable gas may generate or flow.
 - * Places where strong salty wind blows such as coast regions.
 - * Places with an atmosphere of acidity or alkalinity.
- Do not install the unit in the place where silicon gas drifts. If the silicon gas attaches to the surface of heat exchanger, the fin surface repels water . As a result, drain water splashes outside of the drain pan and splashed water runs inside of electrical box. In the end, water leakage or electrical devices failure may occur.
- Pay attention to the following points when the unit is installed in a hospital or other facilities where electromagnetic wave generates from medical equipment.
 - * Do not install the unit in the place where the electromagnetic wave is directly radiated to the electrical box, remote control cable or remote control switch.
 - * Install the unit at least 3 meters away from electromagnetic wave such as a radio.
- Do not install the unit in the place where the breeze directly catches the animals and plants. It could adversely affect the animals and plants.
- The installer and system specialist shall secure against leakage according to local regulations or standards. The following standards may be applicable, if local regulations are not available. International Organization for Standardization, ISO5149 or European Standard, EN378 or Japan Standard, KHKS0010.
- No part of this manual may be reproduced without written permission.
- It is assumed that this cooling only air conditioner will be operated and serviced by English speaking people. If this is not the case, the customer should be add safety, caution and operating signs in the native language.
- If you have any questions, contact your distributor or dealer of HISENSE
- This manual gives a common description and information for this cooling only air conditioner which you operate as well for other models.
- Air conditioner has been designed for operating within a specific range mentioned ,refer to outdoor manual.

< Signal Words >

- Signal words are used to identify levels of hazard seriousness.
Definitions for identifying hazard levels are provided below with their respective signal words

 **DANGER**

: DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING**

: WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION**

: CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

: NOTICE is used to address practices not related to personal injury.

NOTE

: NOTE is useful information for operation and/or maintenance.

DANGER

- Do not perform installation work, refrigerant piping work, drain pump, drain piping and electrical wiring connection without referring to our installation manual. If the instructions are not followed, it may result in a water leakage, electric shock or a fire.
- Use the specified non-flammable refrigerant (R410A) to the outdoor unit in the refrigerant cycle. Do not charge material other than R410A into the unit such as hydrocarbon refrigerants (propane or etc.), oxygen, flammable gases (acetylene or etc.) or poisonous gases when installing, maintaining and moving. These flammables are extremely dangerous and may cause an explosion, a fire, and injury.
- Do not pour water into the indoor or outdoor unit. These products are equipped with electrical parts. If poured, it will cause a serious electrical shock.
- Do not open the service cover or access panel for the indoor or outdoor units without turning OFF the main power supply.
- Do not touch or adjust safety devices inside the indoor unit or outdoor units. If these devices are touched or readjusted, it may cause a serious accident.
- Refrigerant leakage can cause difficulty with breathing due to insufficient air. Turn OFF the main switch, extinguish any naked flames and contact your service contractor, if refrigerant leakage occurs.
- Make sure that the refrigerant leakage test should be performed.
Refrigerant (Fluorocarbon) for this unit is incombustible, non-toxic and odorless.
However if the refrigerant is leaked and is contacted with fire, toxic gas will generate.
Also because the fluorocarbon is heavier than air, the floor surface will be filled with it, which could cause suffocation.
- The installer and system specialist shall secure safety against refrigerant leakage according to local regulations or standards.
- Use an ELB (Earth Leakage Breaker).
In the event of fault, there is danger of an electric shock or a fire if it is not used.
- Do not install the outdoor unit where there is high level of oil mist, flammable gases, salty air or harmful gases such as sulfur.
- For installation, firmly connect the refrigerant piping before the compressor starts operating.
For maintenance, relocation and disposal, remove the refrigerant piping after the compressor stops.
- Do not perform a short-circuit of the protection device such as a pressure switch when operating.
It may cause a fire and explosion.

WARNING

- Do not use any sprays such as insecticide, lacquer, hair spray or other flammable gases within approximately one (1) meter from the system.
- If circuit breaker or fuse is often activated, stop the system and contact your service contractor.
- Check that the ground wire is securely connected. If the unit is not correctly grounded, it lead electric shock. Do not connect the ground wiring to gas piping, water piping, lighting conductor or ground wiring for telephone.
- Connect a fuse of specified capacity.
- Before performing any brazing work, check to ensure that there is no flammable material around
When using refrigerant be sure to wear leather gloves to prevent cold injuries.
- Protect the wires, electrical parts, etc. from rats or other small animals.
If not protected, rats may gnaw at unprotected parts and which may lead to a fire.
- Fix the cables securely. External forces on the terminals could lead to a fire.
- Provide a sufficiently strong foundation. If not, the unit may fall down and it may lead to injuries.
- Do not install the unit in a place where oil, vapor, organic solvent and corrosive gas (ammonia, sulfur compound and acid) may be present in quantities.
It may cause refrigerant leakage due to corrosion, electrical shock, deteriorated performance and breakage.
- Perform electrical work according to Installation Manual and all the relevant regulation and standards.
If the instructions are not followed, an electrical shock and fire may occur due to insufficient capacity a inadequate performance.
- Use specified cables between units and choose the cables correctly. If not, an electrical shock or fire may occur.
- Ensure that the wiring terminals are tightened securely with the specified torques. If not, generating fire electrical shock at the terminal connection part may occur.

CAUTION

- Do not step or put any material on the product.
- Do not put any foreign material on the unit or inside the unit.
- Provide a strong and correct foundation so that;
 - a. The outdoor unit is not on an incline.
 - b. Abnormal sound dose not occur.
 - c. The outdoor unit will not fall down due to a strong wind or earthquake.
- The appliance is not to be used by children or person with reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised that they do not play with the appliance.
- The standard utilization of the unit shall be explained in these instructions. Therefore, the utilization of the unit other than those indication in these instructions is not recommended. Please contact your local agent, as the occasion arises.
- HISENSE's liability shall not cover defects arising from the alteration performed by a customer without HISENSE's consent in a written form.

NOTICE

- Do not install the indoor unit, outdoor unit, remote control switch and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment.
- Supply electrical power to the system to energize the oil heater for 12 hours before startup after a long shutdown.
- Make sure that the outdoor unit is not covered with snow or ice, before operation.
- In some cases, the packaged air conditioner may not be operated normally under the following cases.
 - * In case that electrical power for the packaged air conditioner is supplied from the same power transformer as the device*.
 - * In case that the power source wires for the device* and the packaged air conditioner are located close to each other.

Device*: (Ex) Lift, container crane, rectifier for electric railwa , inverter power device, arc furnace, electric furnace, large-sized induction motor and large-sized switch.
It consumes a large quantity of electrical power.

Regarding the cases mentioned above, surge voltage may be inducted in the power supply wiring for the packaged air conditioner due to a rapid change in power consumption of the device and an activation of switch.

Therefore, check the field regulations and standards before performing electrical work in order to protect the power supply for the packaged air conditioner.

NOTE

- It is recommended that the room will be ventilated every 3 to 4 hours.
- The heating capacity of the heat pump unit is decreased according to the outdoor air temperature. Therefore, it is recommended that auxiliary heating equipment be used in the field when the units is installed in a low temperature region.
- Regarding transport / storage temperature within $-25\sim 55^{\circ}\text{C}$.
- All the operation method of remote control switch mention in this handbook is base on HYPE-A01H. Turn to the operation manul accompanied with the remote control switch for detailed information of other types.
- Correct Disposal of this product.

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



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1.Control Switch Specifications

Type		Wired Remote Control Switch			
Model		HYXE-F01H	HYXE-G01H	HYXE-J01H	HYXE-M01H
Basic Function	Run/Stop, Mode, Temp. Fan speed、Air swing	○ (3 Step Fan Speed)	○ 6 Step Fan Speed /Auto Dehumidity	○ (6 Step Fan Speed)	○
	Simple Timer Setting	○(0~24h)	○(0~24h)	○(0~24h)	○(0~24h)
	Schedule Setting	×	×	○ (7 Days Timer)	×
	Check Mode 1, 2	○	○(Only Mode1)	○	○
	Optional Setting	○	○(Service 02)	○	○
	Filter Reset	○	○	○	○
	Unusual display	○	○	○	○
	Test Run	○	○	○	○
	ODU,IDU PCB Check /self Check	○	○(Self Check)	○	○
	Status Display	○	○	○	○
	Built-in Thermistor	○	×	○	×
	Main-Sub Setting	○	×	○	○
	Max.Indoor Units	○ (16)	×	○ (16)	○ (16)
	Wireless signal receive	×	○	×	○
	Forbidding Remote Control	×	×	×	×
Communication Distance	500m	500m	500m	500m	
Ceiling Ducted Type (Low Static Pressure) Ceiling Ducted Type (High Static Pressure) Low-Height Ceiling Ducted Type Slim Ceiling Ducted Type	○	○	○	○	
DC Low-Height Ceiling Ducted Type	○	○	△	○	
4-Way Cassette Type Compact 4-Way Cassette Type	○	○	○	○	
2-Way Cassette Type	○	×	○	○	
Wall Mounted Type	○	○	○	○	
Ceiling & Floor Type	○	○	○	○	
Floor Concealed Type	○	○	○	○	
1-Way Cassette Type	○	○	○	○	

NOTES:

1.○: Available ×: Not Available √:Standard △:Recommendation

2.*Communication Cable Total Length.

Type		Wired Remote Control Switch			Wireless Receiver		
Model		HYE-Q01	HYE-L01	HYE-W01	HYE-V02H (HYE-V01H)	HYE-T02H (HYE-T01H)	HYE-X01H
Basic Foun- ction	Run/Stop, Mode, Temp. Fan speed, Air swing	○			Use Wireless Receiver with Wireless Remote Control Switch, Emergency Operation: Cooling, Heating Only		
	Simple Timer Setting	○(0~24h)					
	Schedule Setting	×					
	Check Mode 1, 2	×					
	Optional Setting	×					
	Filter Reset	○					
	Unusual display	×					
	Test Run	○					
	ODU, IDU PCB Check /Self Check	○(Self Check Only)					
	Status Display	○					
	Built-in Thermistor	×					
	Main-Sub Setting	×			○	○	○
	Max. Indoor Units	×			16	16	16
	Wireless signal receive	×			○	○	○
Communication Distance	5m			500m *	500m*	500m *	
Ceiling Ducted Type (Low Static Pressure) Ceiling Ducted Type (High Static Pressure) Low-Height Ceiling Ducted Type Slim Ceiling Ducted Type	○	○	○	○	×	×	
DC Low-Height Ceiling Ducted Type	○	△	○	○	×	×	
4-Way Cassette Type	○	○	○	×	○	×	
Compact 4-Way Cassette Type	○	○	○	○(×)	×	×	
2-Way Cassette Type	○	○	○	○	×	×	
Wall Mounted Type	√	×	√	○	×	×	
Ceiling & Floor Type	○	○	○	○	×	×	
Floor Concealed Type	○	○	○	○	×	×	
1-Way Cassette Type	×	△	×	×	×	○	

NOTES:

1. ○: Available ×: Not Available √:Standard △:Recommendation

2.*Communication Cable Total Length.

Type		7-Day Timer	Central Station	
Model		HYDE-E01H	HYJE-D01H	HYJE-D02H
Basic Foun- ction	Run/Stop, Mode, Temp. Fan speed、 Air swing	3 Times Run/Stop Setting / Day; Holiday Run Setting	○ (3 Step Fan Speed)	○ 3 Step Fan Speed
	Simple Timer Setting		×	×
	Schedule Setting		×	×
	Check Mode 1, 2		×	×
	Optional Setting		×	×
	Filter Reset		○	○
	Unusual display		○	○
	Test Run		○	○
	ODU,IDU PCB Check /Self Check		×	×
	Status Display		○	○
	Built-in Thermistor		×	×
	Main-Sub Setting		×	×
	Max.Indoor Units		○ (128 Units/16Groups)	○(128 Units/16Groups)
	Wireless signal receive		×	×
	Forbidding Remote Control		○	○
Communication Distance		1000m*	1000m*	
Ceiling Ducted Type (Low Static Pressure)				
Ceiling Ducted Type (High Static Pressure)				
Low-Height Ceiling Ducted Type	○	○	○	
Slim Ceiling Ducted Type				
DC Low-Height Ceiling Ducted Type	○	○	○	
4-Way Cassette Type	○	○	○	
Compact 4-Way Cassette Type				
2-Way Cassette Type	○	○	○	
Wall Mounted Type	○	○	○	
Ceiling & Floor Type	○	○	○	
Floor Concealed Type	○	○	○	
1-Way Cassette Type	○	○	○	

NOTES:

1.○: Available ×: Not Available √:Standard △:Recommendation

2.*Communication Cable Total Length.

Type		Central Control			
Model		HYJ-J01H	HCCS-H247R4C1E	HCCS-H128H2C1NM	HCCS-H128H2C1YM
Basic Foun- ction	Run/Stop, Mode, Temp. Fan speed、 Air swing	○ (3 Step FanSpeed) (Run/Stop)	M-Concentrator must be used together with Hi-Dom to collect the electricity consumption.	○ (3 Step FanSpeed)	○ (3 Step FanSpeed)
	Simple Timer Setting	×		×	×
	Schedule Setting	×		○	○
	Check Mode 1, 2	×		×	×
	Optional Setting	×		×	×
	Filter Reset	×		×	×
	Unusual display	○		○	○
	Test Run	×		×	×
	ODU, IDU PCB Check /self Check	×		×	×
	Status Display	× (Remote ON Only)		○	○
	Built-in Thermistor	×		×	×
	Max. Indoor Units	○ (128 Units/ 16Groups)		○ (128 Units/ 16Groups)	○ (128 Units/ 16Groups)
	Forbidding Remote Control	×		○	○
	Communication Distance	1000m*		1000m*	1000m*
Ceiling Ducted Type (Low Static Pressure) Ceiling Ducted Type (High Static Pressure) Low-Height Ceiling Ducted Type Slim Ceiling Ducted Type	○	○	○		
DC Low-Height Ceiling Ducted Type	○	○	○		
4-Way Cassette Type Compact 4-Way Cassette Type	○	○	○		
2-Way Cassette Type	○	○	○		
Wall Mounted Type	○	○	○		
Ceiling & Floor Type	○	○	○		
Floor Concealed Type	○	○	○		
1-Way Cassette Type	○	○	○		

NOTES:

1.○: Available ×: Not Available √:Standard △:Recommendation

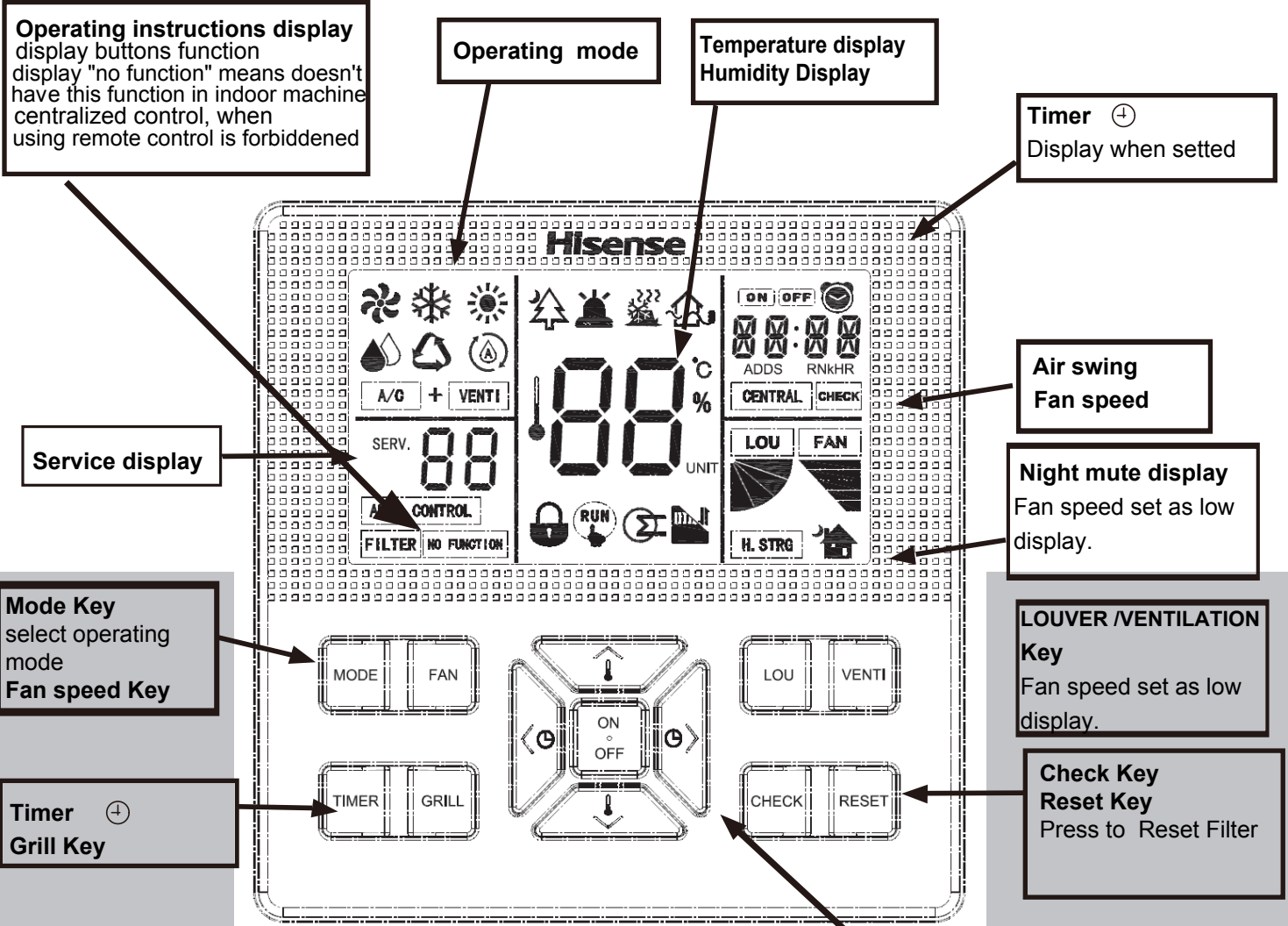
2.*Communication Cable Total Length.

2. Wired Remote Control Switch Display

Model: HYXE-F01H

Display part

(For the instructions below, display is different from reality.)



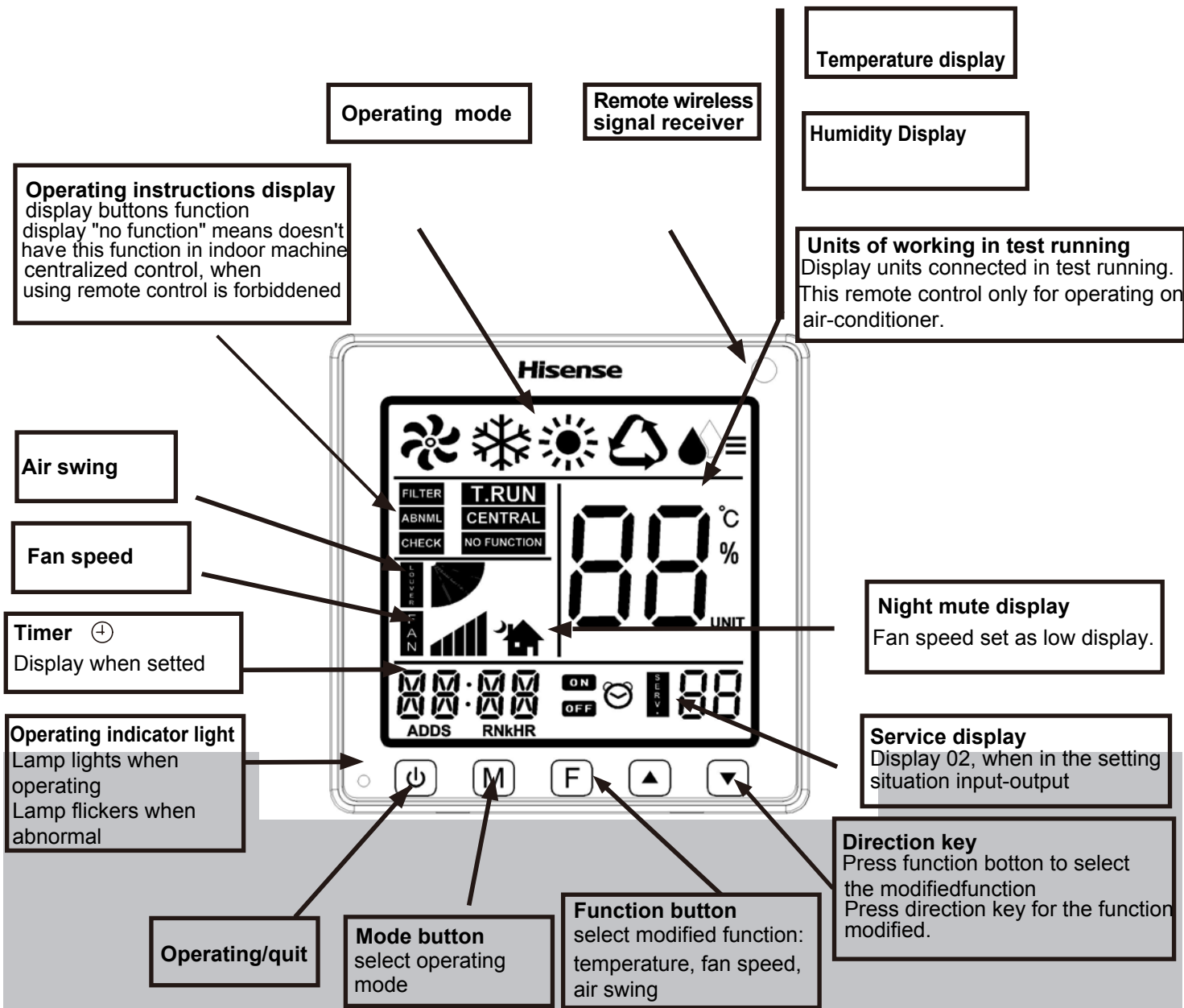
Operation part

Wired Remote Control Switch

Model: HYPE-G01H

Display part

(For the instructions below, display is different from reality.)



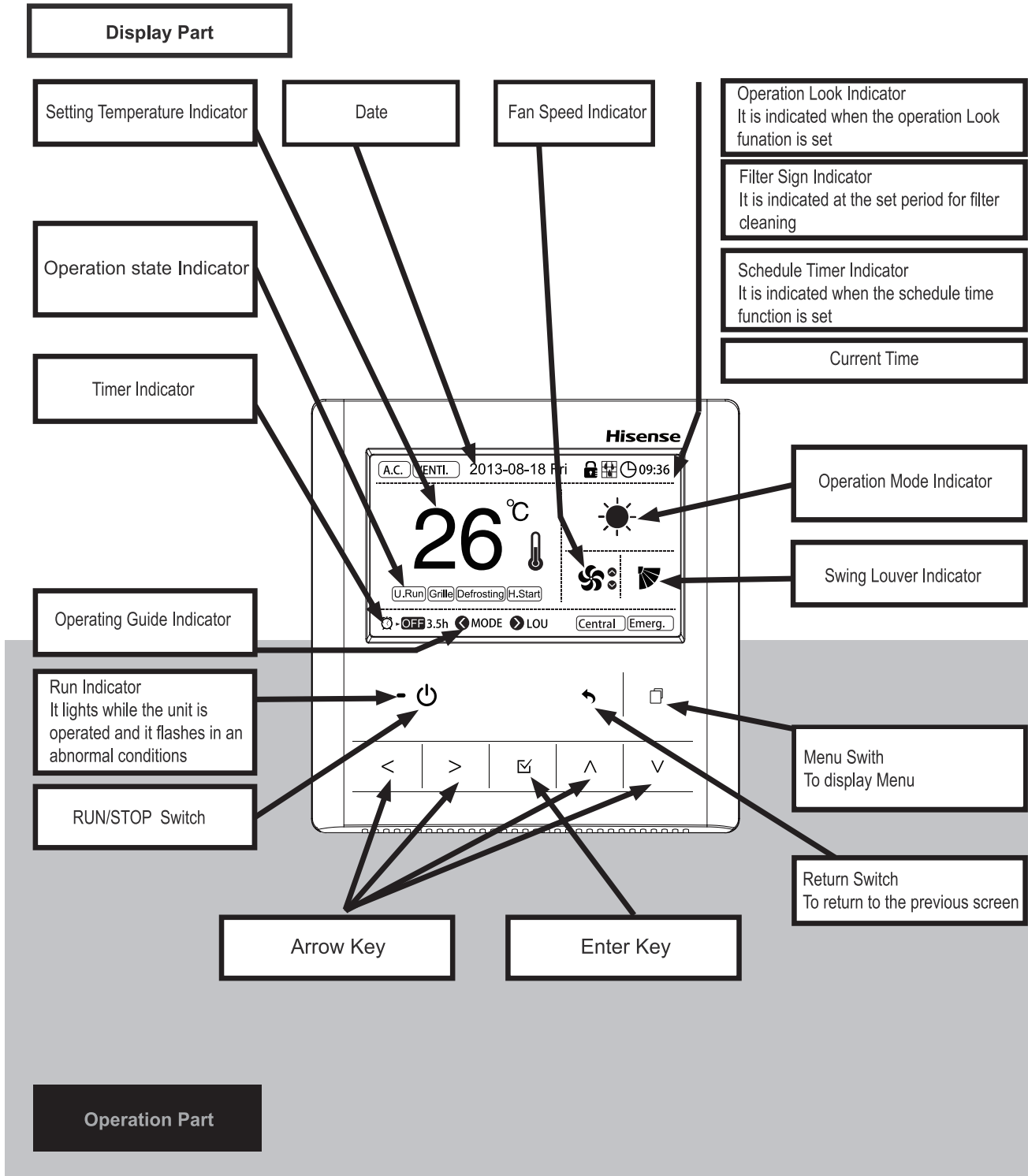
Operation part

attentions

- Please use figure **softly touch** remote control's buttons
Do not press hard.

Model: HYXE-J01H

The figure below shows all the indications for reference. The actual display during operation is different.



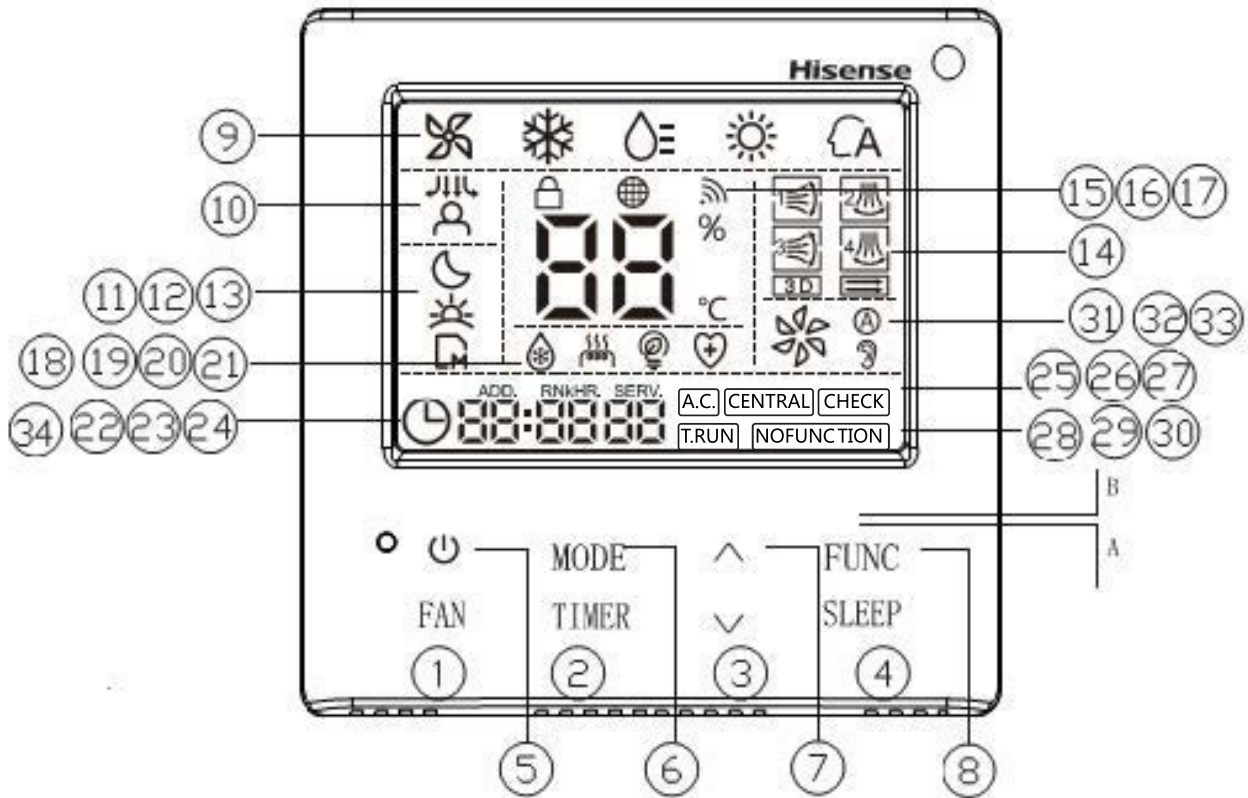
i NOTE

- Do NOT press the switches hard or press with sharply pointed material such as a ball point pen. The operation part of the remote control switch may be damaged.
- Make sure that the switches are touched softly with fingers.

Wired Remote Control Switch

Model: HYPE-M01H

(To proceed with below instructions, all the displays are listed. It is different from actual running.)



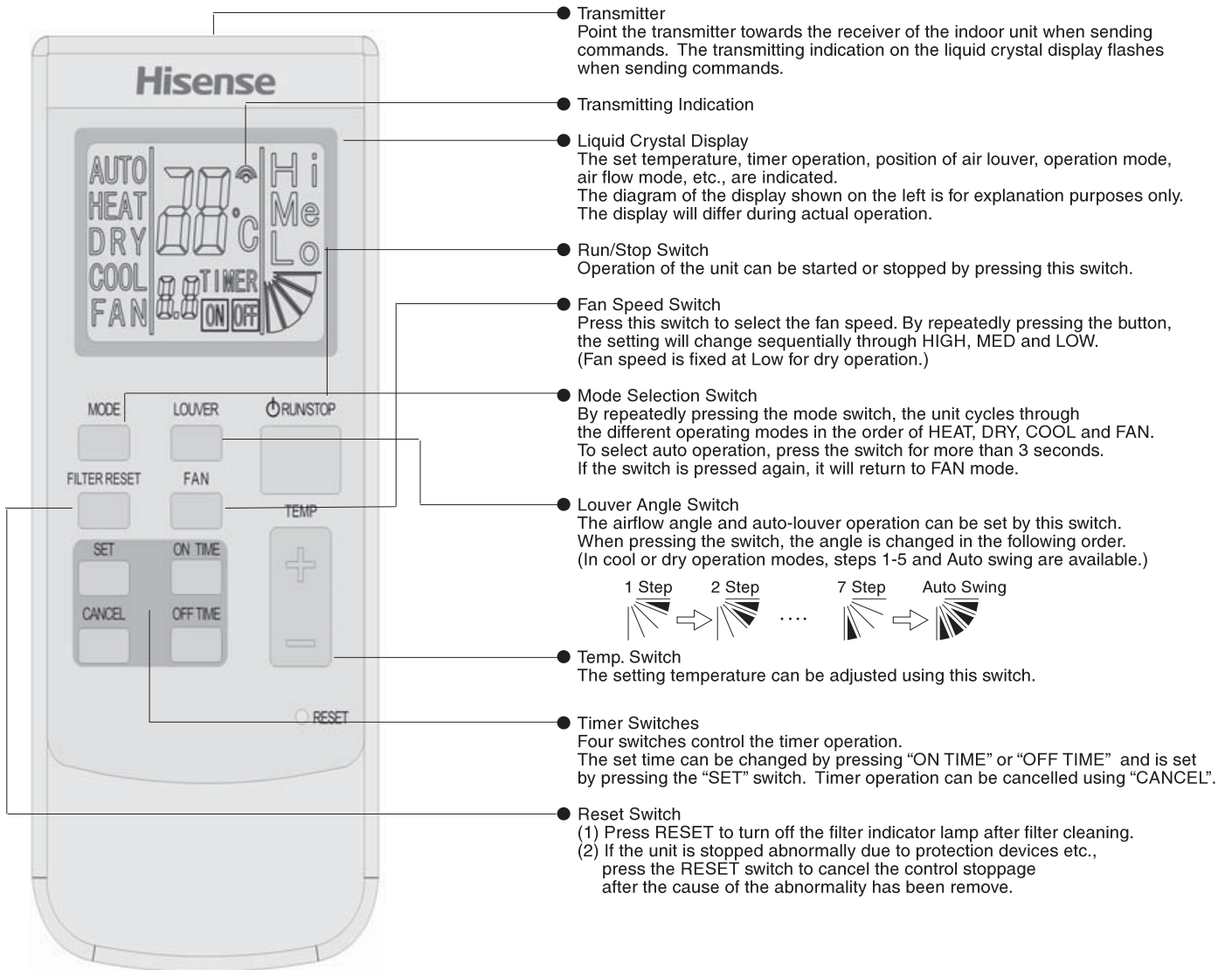
A Operation Button Section

- ① Fan Speed Button
- ② Timer Button
- ③ Temperature Button "-"
- ④ Sleep Button
- ⑤ ON & OFF Button
- ⑥ Mode Button
- ⑦ Temperature Button "+"
- ⑧ Function Button

B LCD Display Section

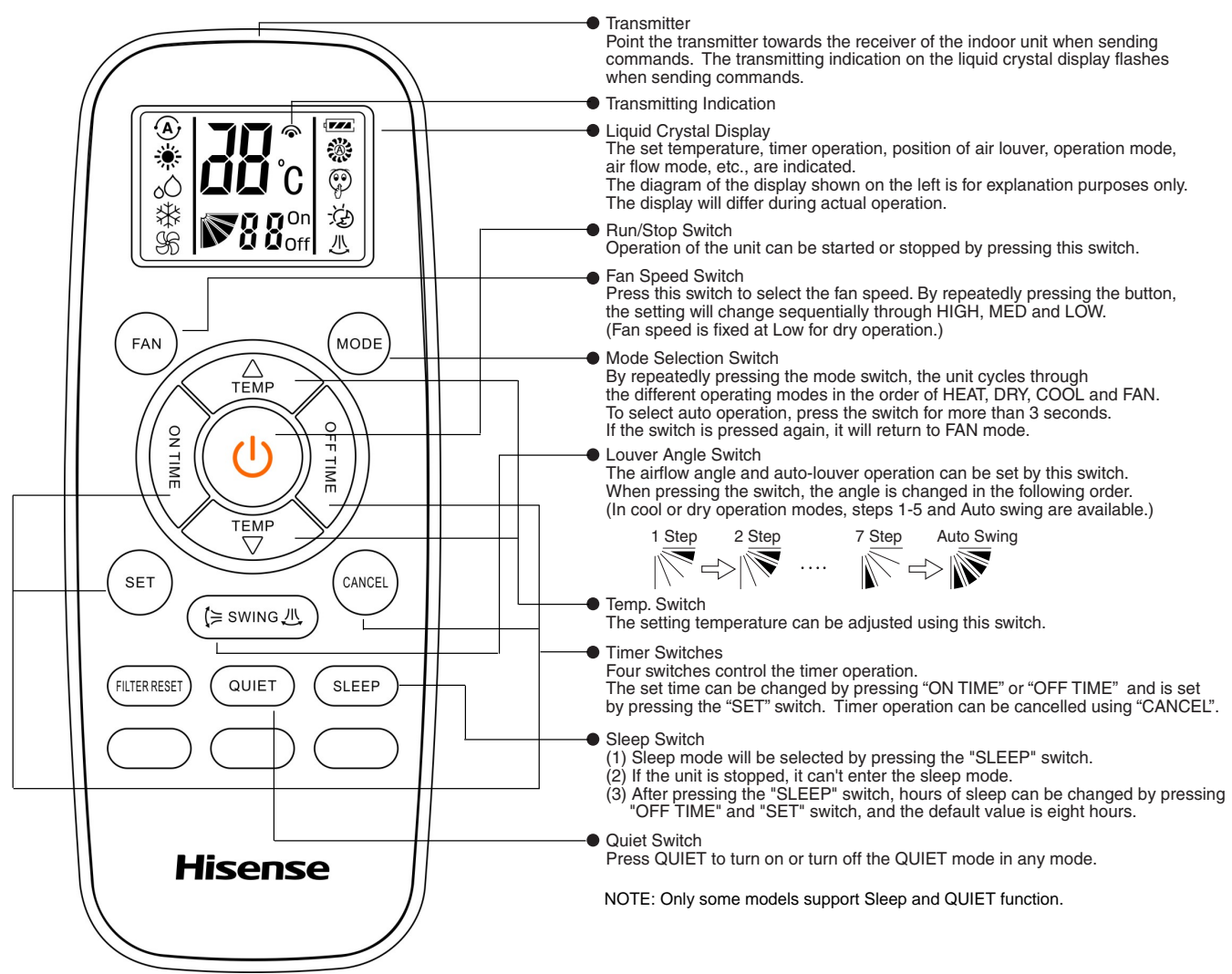
- ⑨ "FAN", "COOL", "DRY" "HEAT", "AUTO" Run Modes
- ⑩ Human Induction Display
- ⑪ Comfort Sleep Icon Display
- ⑫ Comfort Wake Icon Display
- ⑬ Memory Icon Display
- ⑭ Air Swing Icon Display
- ⑮ Lock Icon Display
- ⑯ Filter Icon Display
- ⑰ Signal Icon Display
- ⑱ Defrost Icon Display
- ⑲ Auxiliary Power Icon Display
- ⑳ Energy Saving Icon Display
- ㉑ Health Icon Display
- ㉒ System Address Code Display
- ㉓ On-site Setting System Address Display
- ㉔ Service Code Display
- ㉕ Air-Conditioning Icon Display
- ㉖ Trial Run Icon Display
- ㉗ Spot Check Icon Display
- ㉘ Hot Start Icon Display
- ㉙ Centralized Control Icon Display
- ㉚ NO FUNCTION Display
- ㉛ Fan Speed Icon Display
- ㉜ Fan Speed Auto Icon Display
- ㉝ Mute Icon Display
- ㉞ System Timer ON/ OFF Status

Model: HYXE-Q01



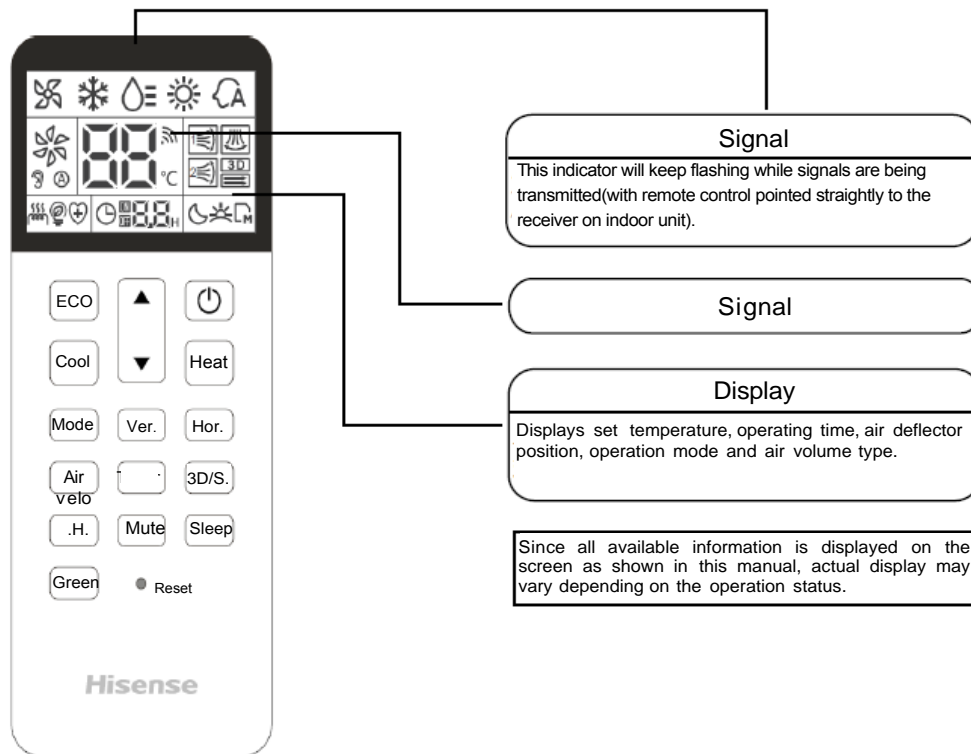
Wireless Remote Control Switch

Model: HYXE-L01



Model: HYE-W01

- Wireless remote control is a device transmitting instructions on operation mode and time setting to indoor unit. Point the remote control to signal receiver on indoor unit and press relevant button to send IR signals for communication.
- The maximum transmission distance is about 5 meters (the distance may be shorter when transmission path of IR signals is not perpendicular to the receiver or there is any electronic lighting device nearby).

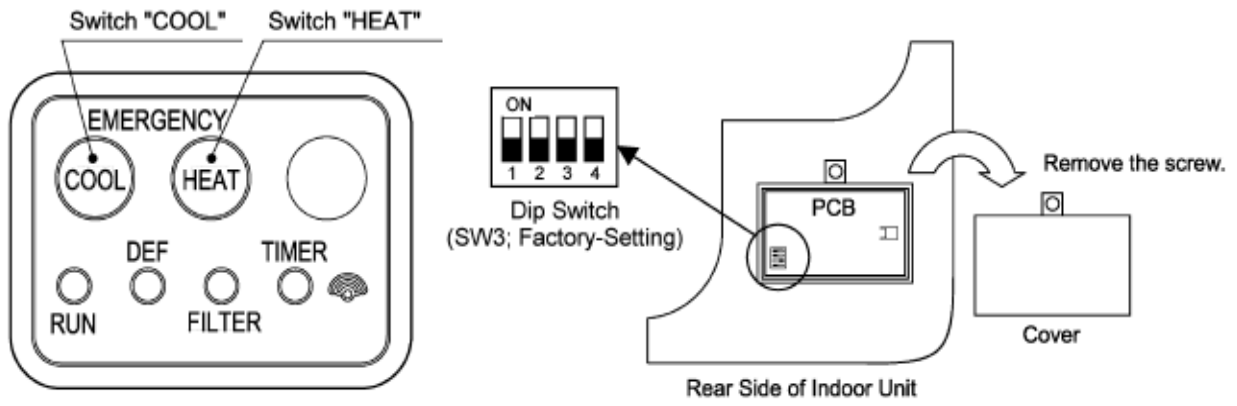


Button Description:

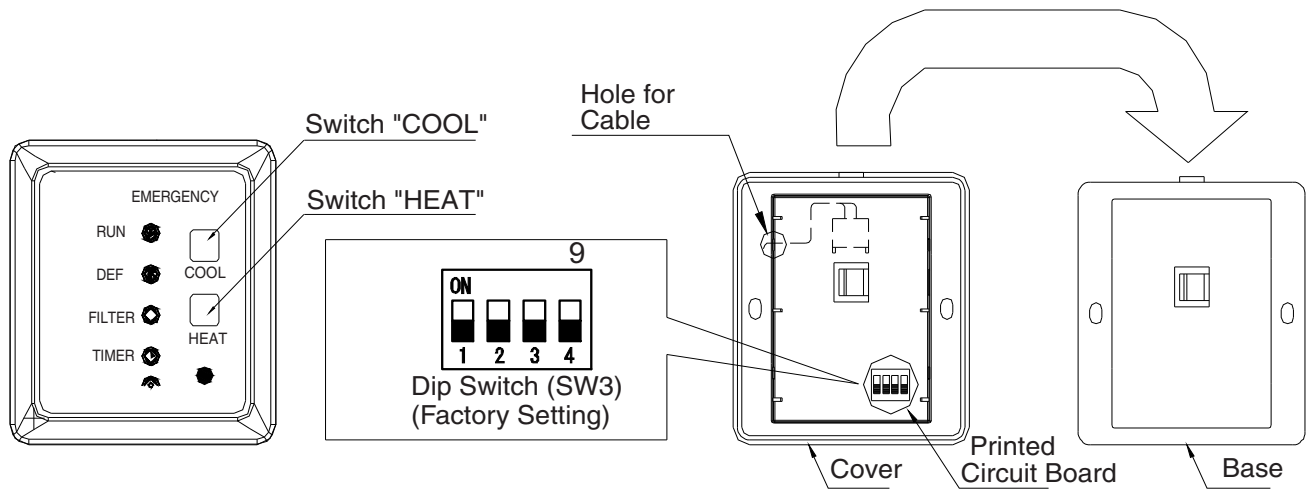
Start/Stop:	Press the button to start remote control, and press it again to shut down the remote control.	Mode	For toggling between operation modes
Cool	Used to set operation mode to cooling	Heat	Used to set operation mode to heating
Speed	For selection of airflow velocity	Temperature	Used for setting of indoor temperature
ECO	Press it to operate air conditioner in power-saving mode	3D/S.	Used to set 3D/strong airflow
Sleep	Press it to operate air conditioner in sleep mode	Mute	Press it to operate air conditioner in mute mode
S.H.	Press it to operate air conditioner in strong heating mode	Green	Press it to operate air conditioner in health mode
Airflow Direction	Hor Set horizontal airflow direction	Timer	After shutdown, press it to schedule start-up of the air conditioner
	Ver. Set vertical airflow direction		After start-up, press it to schedule shutdown of the air conditioner
Reset	• After cleaning of filter screen is finished, long press Mute to remove Filter Screen indication on indoor unit.	When any scheduled start-up/shut down has been set, press the button to cancel it	
	• When any protective device stops operating, long press Mute to cancel control after the failure has been removed.		

Wireless Receiver Kit

Model: HYRE-T01H



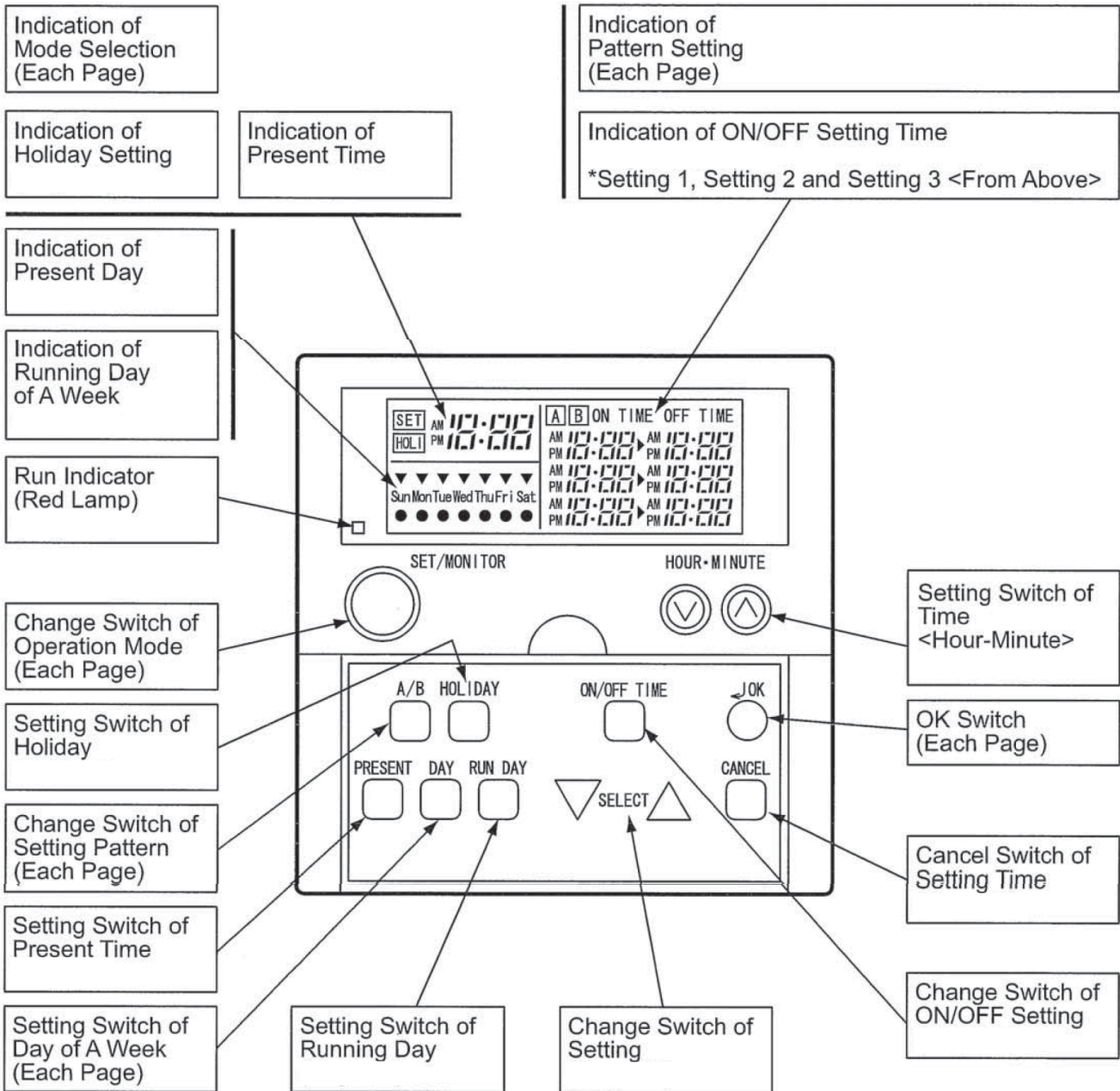
Model: HYRE-V01H HYRE-V11H



Model: HYDE-E01H

Liquid Crystal Display Selection

(The figure below shows all the indications for reference.)
 (The actual display during operation is different.)

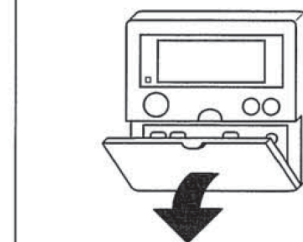


Operation Switch Selection

(The above figure shows the control timer with the cover opened.)

- The present time and the ON/OFF setting time are indicated by 12 hour units (AM0:00-11:59, PM0:00-11:59).

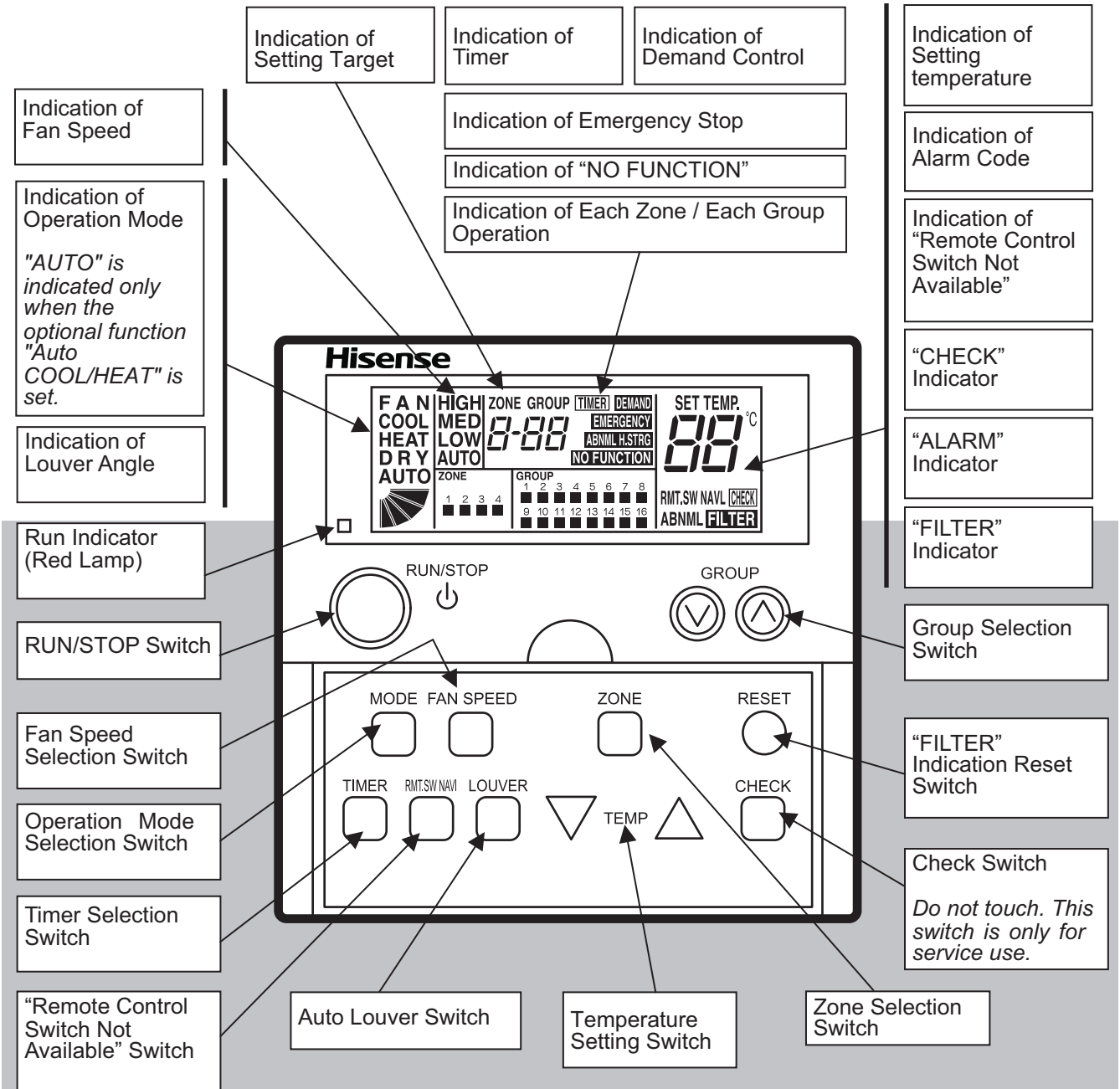
When opening the cover, pull the cover toward the arrow direction.



Model: HYJE-D02H

Liquid Crystal Display Selection

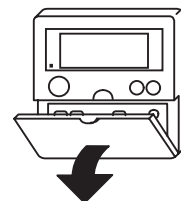
(The figure below shows all the indications for reference.)
(The actual display during operation is different.)



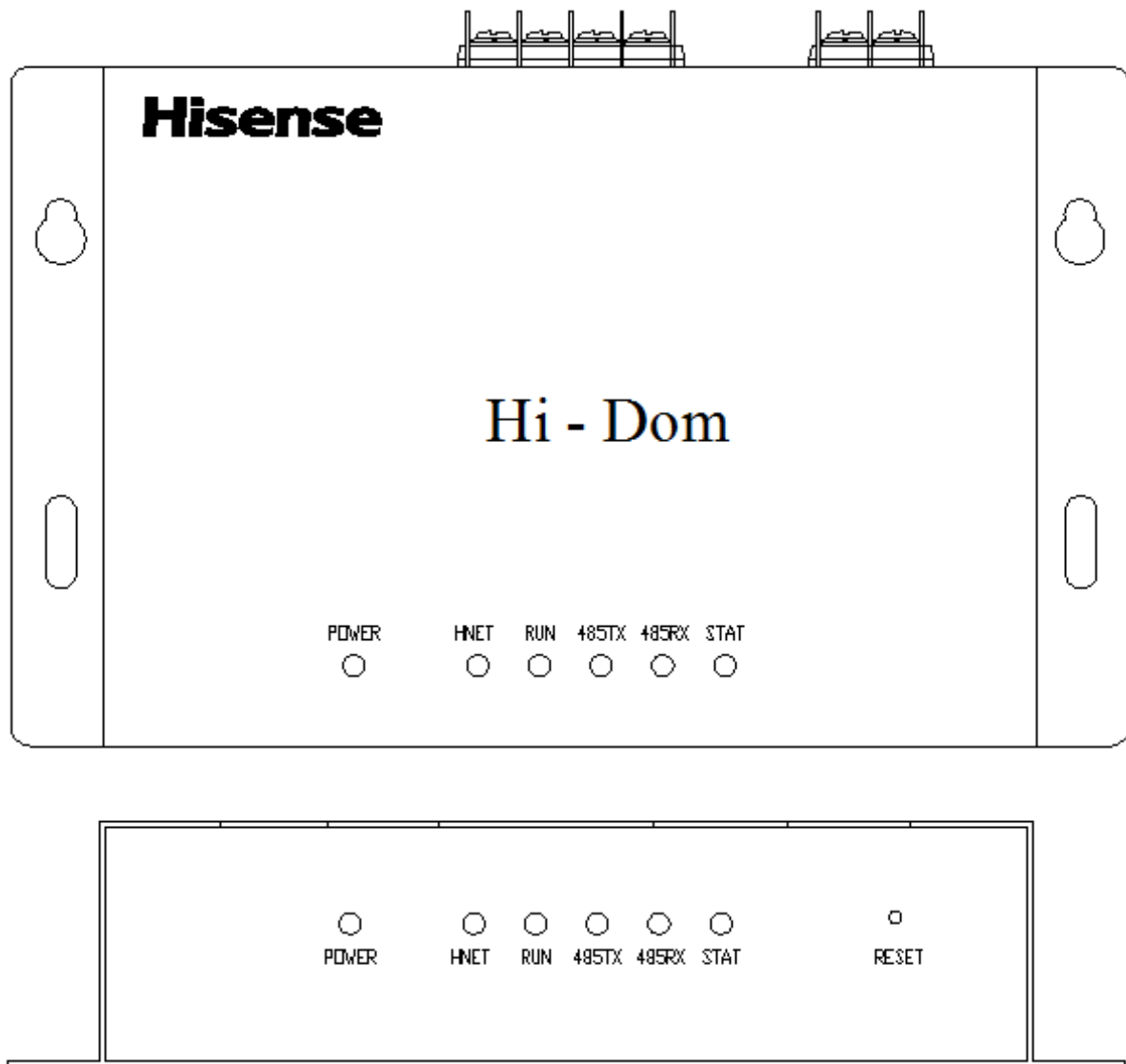
Operation Switch Selection

(The above figure shows the control timer with the cover opened.)

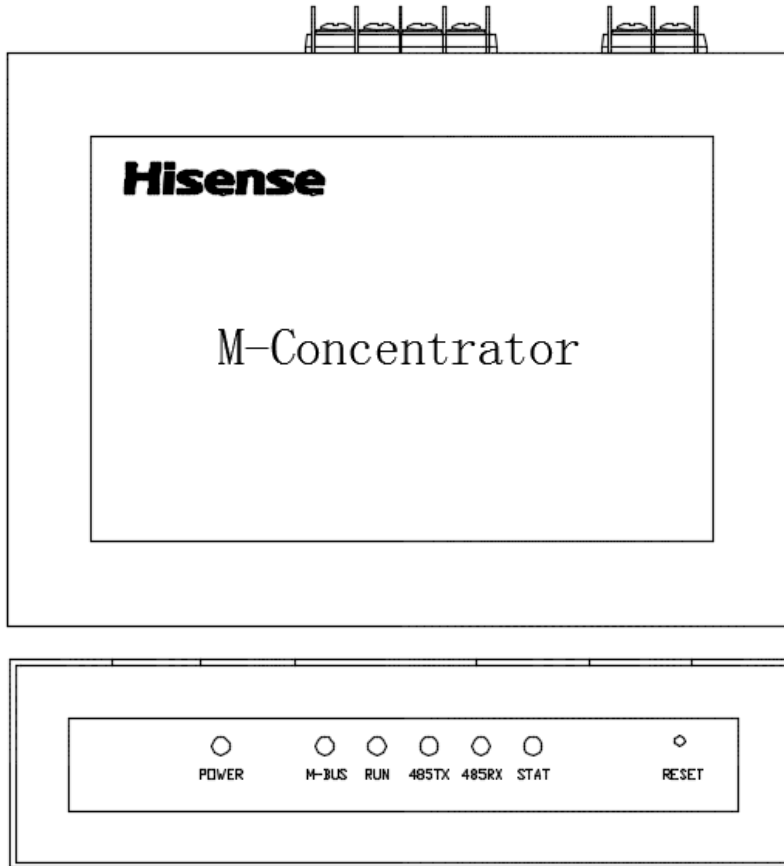
When opening the cover, pull the cover toward the arrow direction.



Model: HCCS-H128H2C1YM
HCCS-H128H2C1NM



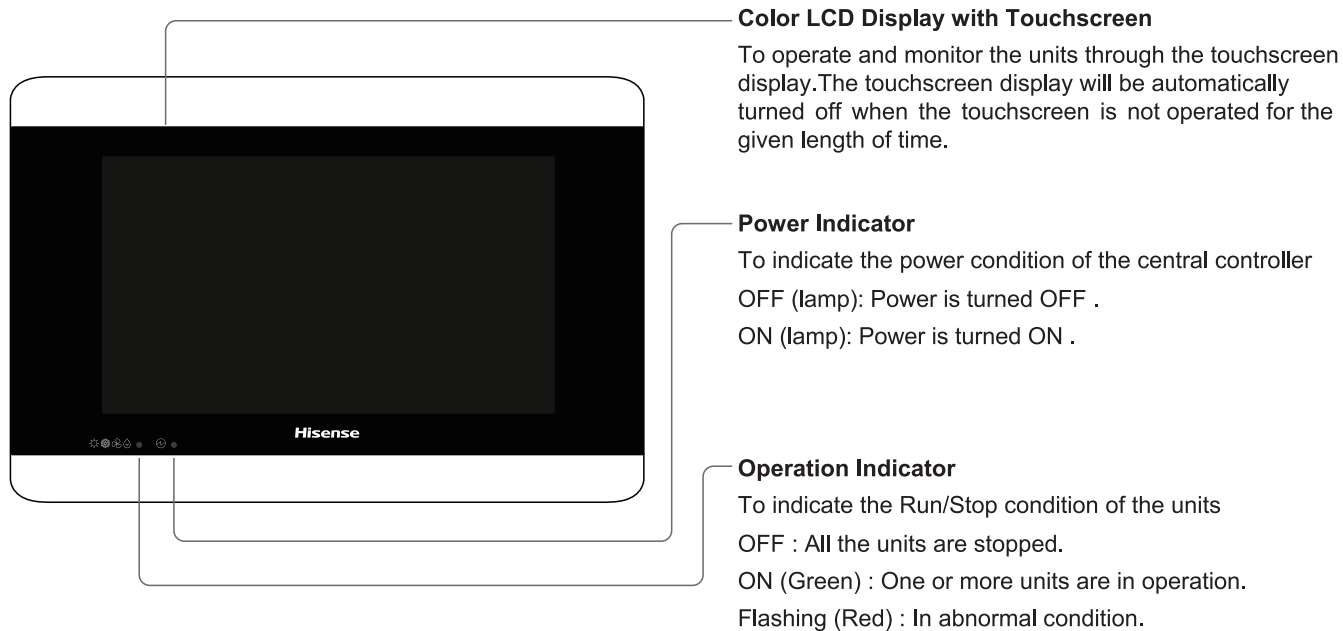
Model: HCCS-H247R4C1E



Model: HYJ-J01H



Model: HYJM-S01H



Hisense Installation & Maintenance Manual

Wired Remote Control Switch (Model: HYXE-F01H)

IMPORTANT:

READ AND UNDERSTAND THIS MANUAL BEFORE USING THIS WIRED REMOTE CONTROL SWITCH. KEEP THIS MANUAL FOR FUTURE REFERENCE.

IMPORTANT NOTICE:

- No part of this manual may be reproduced without written permission.
- Signal words (DANGER, WARNING, and CAUTION) are used to identify levels of hazard seriousness. Definitions of identifying hazard levels are provided below with their respective signal words.

⚠ DANGER : Immediate hazards which WILL result in severe personal injury or death.

⚠ WARNING : Hazards or unsafe practices which COULD result in severe personal injury or death.

⚠ CAUTION : Hazards or unsafe practices which COULD result in minor personal injury or product or property damage

NOTE: Useful information for operation and/or maintenance.

1. SAFETY SUMMARY

⚠ DANGER

- **DO NOT** pour water into the remote control switch (hereafter called “controller”). This product is equipped with electrical parts. If poured, it will cause a serious electrical shock.

⚠ WARNING

- **DO NOT** perform installation work and electrical wiring connection by yourself. Contact your distributor or dealer of Hisense and ask them for installation work and electrical wiring by service person.

⚠ CAUTION

- **DO NOT** install the indoor unit, outdoor unit, controller and cable at such places as;
 1. Where there is oil vapor and the oil is dispersed
 2. Where the hot springs are near (in a sulfuric environment)
 3. Where generation, flowing, staying or leaking of flammable gas is detected
 4. Where the sea is near (in the salty environment)
 5. An acid or alkaline environment
- **DO NOT** install the indoor unit, outdoor unit, controller and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment. In case that the controller is installed in a place where there is electromagnetic wave direct-radiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.
- In case that there is electric noise at the power source for the indoor unit, provide a noise filter.

The box is for checking work .Check the box after checkig.

2. Installation Work

[2.1 Selection of Installation Place]

- 1) Select a suitable place for handling and determine the installation place of the controller with the customer’s acceptance. Do not install the controller at such places as;
- where children can touch
 - where the air from the air conditioner is directly discharged

[2.2 Before Installation]

- 1)This packing contains the following parts.

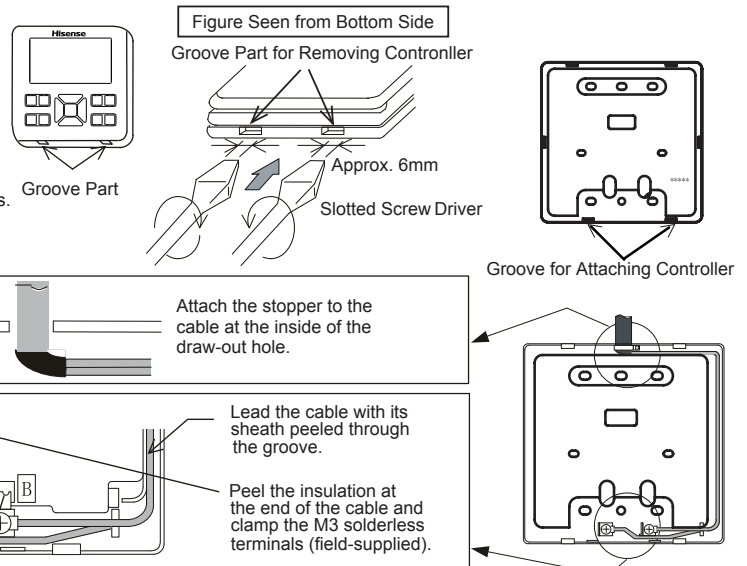
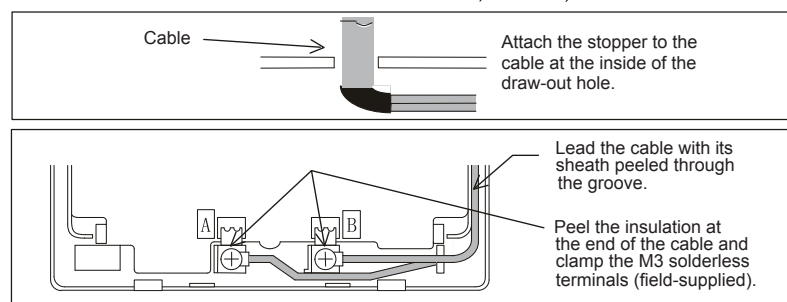
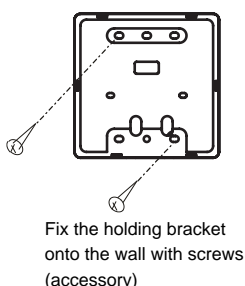
Remote control Switch.....1 Assembling screw(M4*16mm).....2

Installation Spot check specification.....1

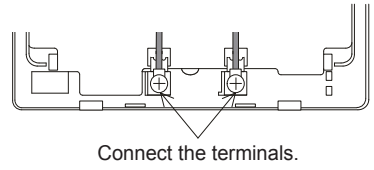
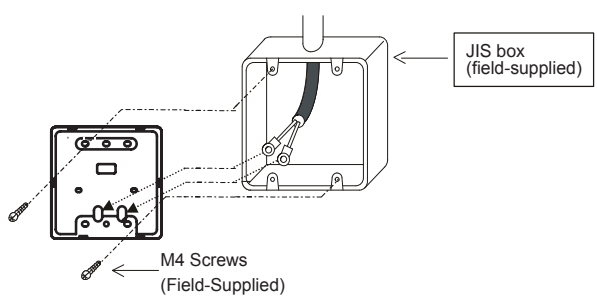
[2.3 Installation Procedures]

- 1) Insert the edge of the slotted screwdriver into the groove at the bottom of the holding bracket, push and turn the slotted screwdriver and then remove the controller from the holding bracket.
- 2) Attach the controller to the holding bracket and connect the cable as follows.

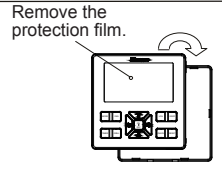
A. In Case of Exposing Remote Control Cable



B. When Using Switch Box

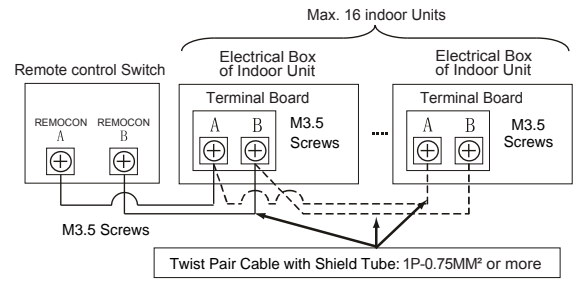


- 3) Attach the remote control switch to the holding bracket. Be careful not to pinch the cable when attaching it.
- 4) Remove the protection film from the liquid crystal display.



3. Electrical Wiring

ATTENTION : Always make sure to turn off the power of the indoor unit when performing electrical wiring work. Performing electrical wiring work with the power on can damage the circuit boards of the indoor unit and the remote control switch.



CAUTION

- Use a 0.3 to 0.75mm² cable for connecting. The maximum total cable length is up to 30m. If the total cable length exceeds 30m, use a twist pair cable with shield tube (1P-0.75mm² or more). In that case, the maximum total cable length is up to 500m. If using in combination with the control timer, the allowable total cable length is up to 100m. The use of a cable other than that specified above can cause malfunction due to the effects of noise.
- Keep a distance more than 30cm between the transmission line (remote control switch cable and transmission wires) and power source of the indoor units. If not, the air-conditioner may not operate properly or malfunction may occur due to effect of power source noise.
- In case of simultaneously controlling multiple indoor units, set the refrigerant cycle numbers and addresses of the indoor units without overlapping.
- Refer to the Technical Catalog II provided with each indoor unit when performing electrical wiring work between the remote control switch and indoor units for setting the refrigerant cycle number and the indoor unit address.
- No gap shall exist between the remote control switch cable and hole of the remote control switch case. If there is a gap, cover the gap with vinyl tape. If not, malfunction may occur due to entrance of water droplets or insects.

4. Checking Procedures

1) Turn ON the power supply for all the indoor units.

note

Although a portion of the LCD (liquid crystal display) of the remote control switch may light immediately after the power is turned on, this is not a malfunction.

2) For the models with the auto-address function, wait for 3 minutes approximately. The addressing is automatically performed. (There is a case that 5 minutes is required according to the setting condition.)

3) Enter running model

Set the "TEST RUN" mode by pressing the "MODE" and "CHECK" switch simultaneously for more than 3 seconds

A. "[]" is displayed on the LCD. 04 UNIT ← Example when 4 indoor Units are connected.

- B. The total number of the indoor units connected is indicated on the LCD.
- C. In case that the indicated number is not correct, the auto-address function is not performed correctly due to incorrect wiring, the electric noise or etc.
Turn OFF the power supply and correct the wiring after checking the following points;
(Do not repeat turning ON and OFF within 10 seconds.)
1. Power Supply for Indoor Unit is Not Turned ON or Incorrect Wiring.
 2. Incorrect Connection of Connecting Cable between Indoor Units or Incorrect Connection of Controller Cable.
 3. Incorrect Setting of Rotary Switch and Dip Switch (The setting is overlapped.) on the Indoor Units PCB
- D. Check to ensure that the "TEST RUN" mode is not set.

ATTENTION

When "00" is indicated, the auto-address function may be performing. Cancel the "TEST RUN" mode and set it again.

4) Canceling "TEST RUN" Mode

1. When the unit is not operating, press this switch.

2. When the unit is operating, press this switch

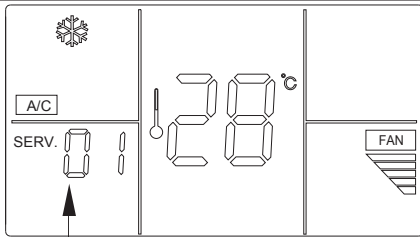
5. Optional Setting and Input / Output Setting of Indoor Unit

Normal Mode (When unit is not operating)

① Change to the optional setting mode.

Press the "CHECK" switch and the "RESET" switch simultaneously for more than 3 seconds.

② Selection of Optional Setting Mode

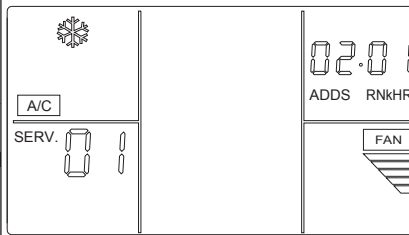


"SERV." is indicated and the mode number is flashed.

Press the "TEMP." V or ^ switch and set "01" or "02". Then press the "CHECK" switch.

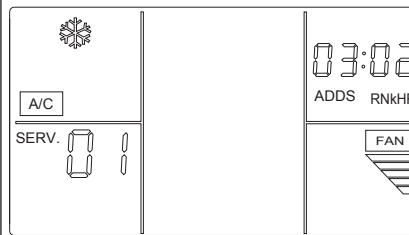
③ Selection of Indoor Unit for Optional Setting

"01" or "02" flashes.



The address of the indoor unit (ADD.S) to set and the refrigerant cycle number (RN) are indicated by 0 to 15. (The left figure shows the No.1 cycle and No.2 indoor unit.)

Select the indoor unit to set by pressing the "V" or "^" switch and press the "CHECK" switch.

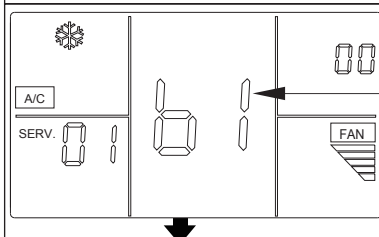


<Example>
When selecting No.2 cycle and No.3 indoor unit (The address is indicated by 0 to 15.)

NOTES: (1) In case that the both indications of the "ADD.S" and "RN" show "AA", the same setting is performed to all the indoor units.
(2) The address of indoor unit not connected is not indicated.

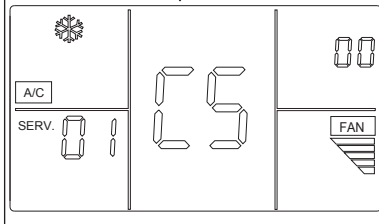
Optional Setting Mode (Mode Number "01")

④ Selection of Optional Setting Items



Item Code of Optional Setting

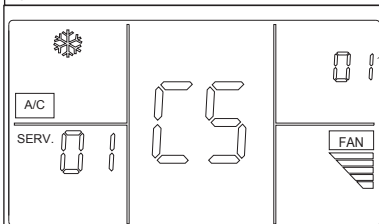
Select the item code by pressing the "TIME" > or < switch.



<Example>
When selecting C5 (Increasing Fan Speed)

In Case of Setting Other Items

⑤ Change of Setting Conditions



Setting Condition

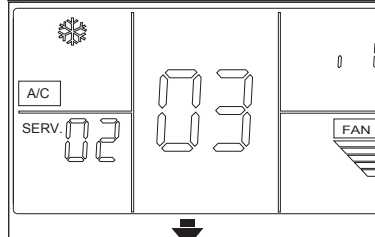
The optional setting condition is changed by pressing the "CHECK" switch.

<Example> When setting 01 (Increasing Fan Speed 1)

※ Refer to the contents of the setting codes for the Table A of "Optional Setting Items".

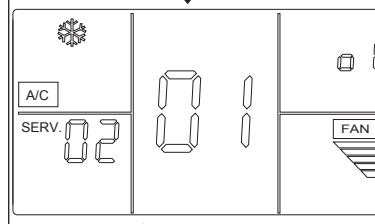
Input / Output Setting Mode (Mode Number "02")

④ Selection of Input / Output Number



Input / Output Number

Select the input / output number by pressing the "TIME" > or < switch.

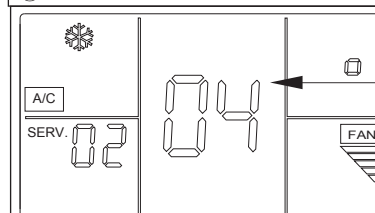


<Example>
When selecting 01 (Output 1)

※ Refer to Table B (Page 8) for contents of the input / output setting.

In Case of Setting Other Items

⑤ Change of Setting Conditions



Contents of Input / Output Setting

The optional setting condition is changed (0→1→2→ ...) by pressing the "CHECK" switch.

<Example> When setting 04 (Output: Thermo-ON for Cooling)

※ Refer to the Table C for the contents of the input / output setting.

Normal Mode

Press the "RESET" switch in the condition of 4 or 5 to cancel the optional setting mode.

Press V or ^ switch in step 4 or 5 when selecting settings for another unit.

● Sheet A Optional Setting Items

Setting item	Name	Individual setting	Setting content	setting	Setting item	Name	Individual setting	Setting content	setting
b1	Removal of Heating Temperature Compensation due to Uneven Heat Load	○	00:Standard 01:Removal 02:Set Temp.+2°C(*1)		d1	The power supply start stop 1	○	00:Not Available 01:Available	
					d2	Not Prepared	—	Not Used	
b2	Circulator Function at Heating Thermo-OFF	○	00: Not Available 01: Available		d3	Power Supply ON/OFF 2	○	00:Not Available 01:Available	
b3	Enforced 3 Minutes Minimum Operation Time of Compressor	○	00: Not Available 01: Available		E1	Ventilation Model	—		
					E2	Increasing Supply Air Volume	○	00:Not Available 01:Available	
b4	Change of Filter Cleaning Time	○	00-04(*2)		E3	With a humidifier	○	00:Not Attached 01:Attached	
b5	Fixing of Operation Mode	○	00:Not Available 01:Available		E4	Time of Precooling and preheating	○	00:Standard 01:30minutes 02:60minutes	
b6	Fixing of Setting Temperature	○	00:Not Available 01:Available						
b7	Fixing of Operation as Exclusive Cooling Unit	○	00:Not Available 01:Available		E5	Not Prepared	—	Not Used	
b8	Automatic COOL/HEAT Operation	○	00:Not Available 01:Available		F1	Automatic OFF Timer Setting	×	00-24 : OFF Timer by 0-24hours	
b9	Fixing of Fan Speed	○	00:Not Available 01:Available						
C1	Not Prepared	—	Not Used		F2	Remote Control Main-Sub Setting	×	00 : Main 01 : Sub	
C2	Not Prepared	—	Not Used						
C3	Not Prepared	○	Not Used						
C4	Not Prepared	○	Not Used						
C5	Hi Speed	○	00: Not Available 01: Hi Speed 1(*3) 02: Hi Speed 2(*3)						
C6	Hi Speed at Heating Thermo-OFF	○	00:Not Available 01:Available						
C7	Canceling of Enforced 3 3 Minutes Minimum Operation Time of Compressor	○	00:Available 01:Not Available						
C8	Thermistor of Remote Control Switch	○	00: Not Available 01,02(*4)						
C9	Not Prepared	—	Not Used						
CA	Not Prepared	—	Not Used						
CB	Selection of Forced Stoppage Logic	○	00:A Contact 01:B Contact						
CC	Not Prepared	×	Use as 00 conditions						

*1. The 02'setting may not be available according to the type of indoor unit.

*2. 00:Standard of Indoor Unit 01:100 hours 02:1200 hours 03:2500 hours 04:No Indication

*3. In case of RPI models, 00: Increasing fan speed 1 (standard), 01: Increasing fan speed 2 (high static pressure), 02: Standard (low static pressure)

*4. 01: Control by Thermistor of Remote Control Switch 02: Control by Average Value of Indoor Suction Thermistor and Thermistor of Remote Control Switch

NOTES:

- * After at least 3 minutes from the power ON, change the optional setting.
- * The optional settings are different according to the indoor and outdoor unit models. Check to ensure that the unit has the optional setting or not.
- * Record the setting conditions for each optional setting in the "Setting" column of the table.

●Table B Input and Output Number Display and Connectors

Input number display		Port	Factory Setting		Setting
Input / Output	Indication		Setting Item	Indication	
Input1	11	CN3 1-2	Remote ON/OFF 1 (level)	03	
Input2	12	CN3 2-3	Forbidding Remote Control after Manual Stoppage	06	
Output1	01	CN7 1-2	Operation	01	
Output2	02	CN7 1-3	Alarm	02	
Output3	03	CN8 1-2	Thermo-ON for Heating	06	

●Table C Input and Output Settings and Display Codes

Indication	Input	Output
00	Not set	Not set
01	Room Thermostat (for Cooling)	Operation
02	Room Thermostat (for Heating)	Alarm
03	Remote ON/OFF 1 (level)	Cooling
04	Remote ON/OFF 2 (Operation)	Thermo-ON for Cooling
05	Remote ON/OFF 2 (Stoppage)	Heating
06	Forbidding Remote Control after Manual Stoppage	Thermo-ON for Heating
07	Remote Cooling / Heating Change	Total Heat Exchanger Change
08	Elevating grille input	Elevating Grille output

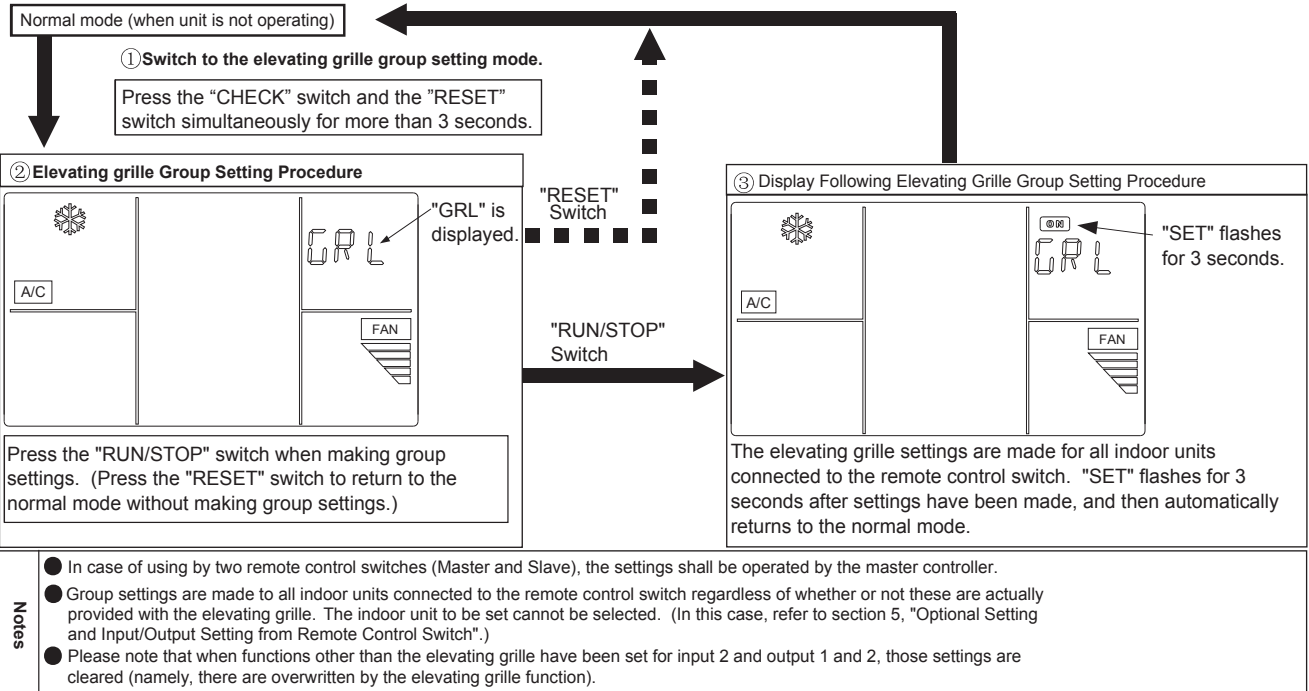
NOTES:

- * After at least 3 minutes from the power ON, change the optional setting.
- * The elevating grille input can be set to Input 2 only "12".
The elevating grille cannot be set to Input 1.
- * The elevating grille output can be set to Output 1 or Output 2 only "01" or "02".
The elevating grille output cannot be set to Output 3.
- * Do not set the elevating grille for the total heat exchanger.
- * Record the setting conditions for each input and output in the "Setting" column of the table.

6. Elevating Grille Group Setting and Cancellation

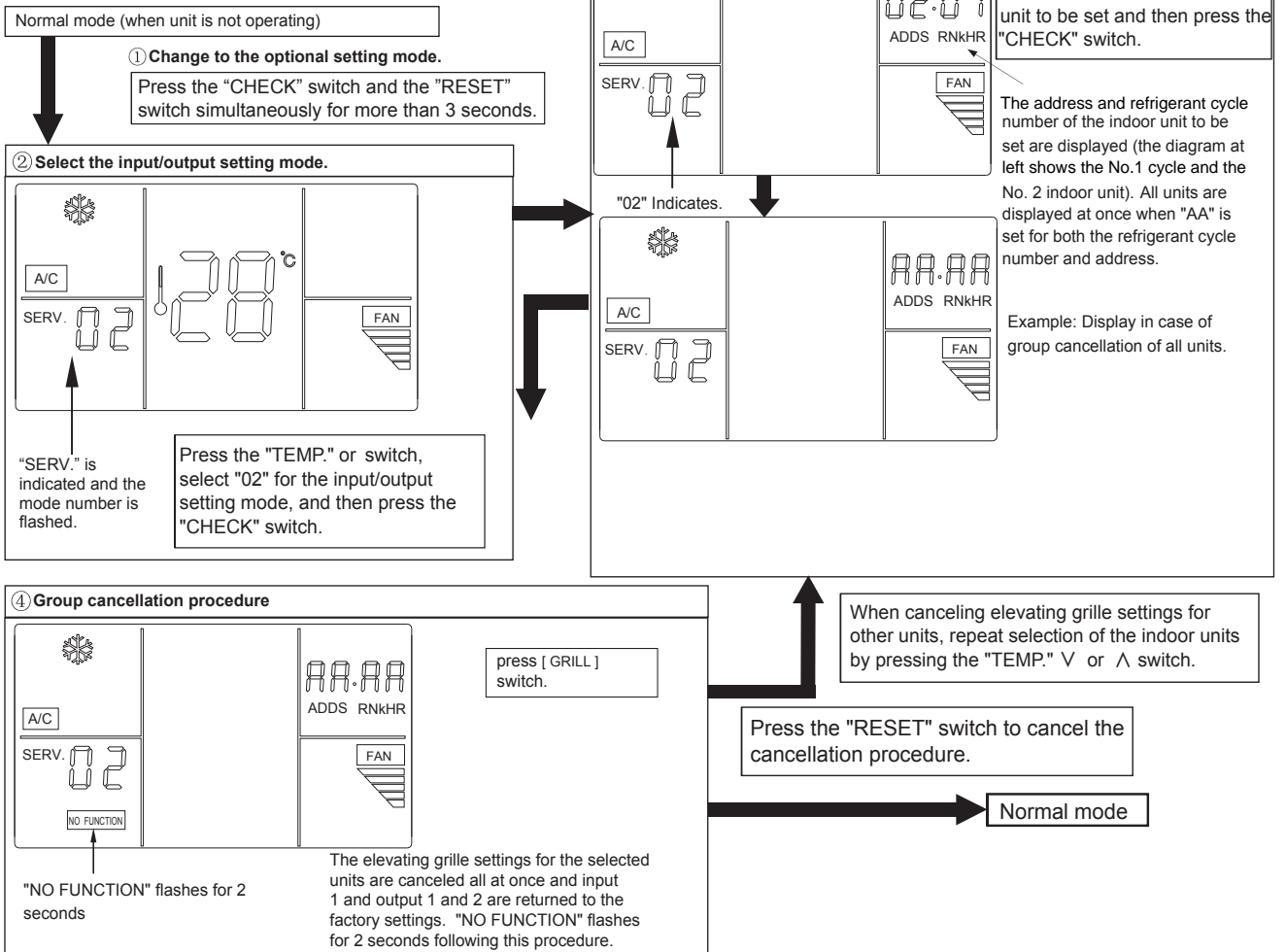
Group setting of the elevating grille refers to a function that allows all settings for the elevating grille (setting of elevating functions for input 2 and outputs 1 and 2) to be made all at once for all indoor units connected to the remote control switch. Settings are made by following the procedure as follows.

● Elevating Grille Group Setting Procedure



Elevating grille settings can be canceled all at once by following the procedure as follows.

● Elevating Grille Group Cancellation Procedure



Installation & Maintenance Manual

Wired Remote Control Switch (Model: HYXE-G01H)

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NOTE: Useful information for operation and/or maintenance.

1. SAFETY SUMMARY

⚠ DANGER

- **DO NOT** pour water into the remote control switch (hereafter called “controller”). This product is equipped with electrical parts. If poured, it will cause a serious electrical shock.

⚠ WARNING

- **DO NOT** perform installation work and electrical wiring connection by yourself. Contact your distributor or dealer of HITACHI and ask them for installation work and electrical wiring by service person.

⚠ CAUTION

- **DO NOT** install the indoor unit, outdoor unit, controller and cable at such places as;
 1. Where there is oil vapor and the oil is dispersed
 2. Where the hot springs are near (in a sulfuric environment)
 3. Where generation, flowing, staying or leaking of flammable gas is detected
 4. Where the sea is near (in the salty environment)
 5. An acid or alkaline environment
- **DO NOT** install the indoor unit, outdoor unit, controller and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment. In case that the controller is installed in a place where there is electromagnetic wave direct-radiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.
- In case that there is electric noise at the power source for the indoor unit, provide a noise filter.

The box is for checking work .Check the box after checkig.

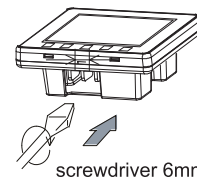
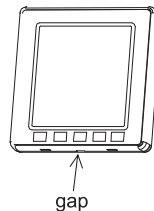
2. Installation Work

- Do check package are all follow items included :

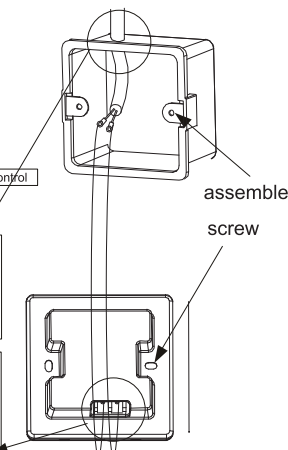
Remote control ...1	screw(M4× 20mm) ...2
Operation manual ... 1	Installation Manual ... 1

【Installation Procedures】

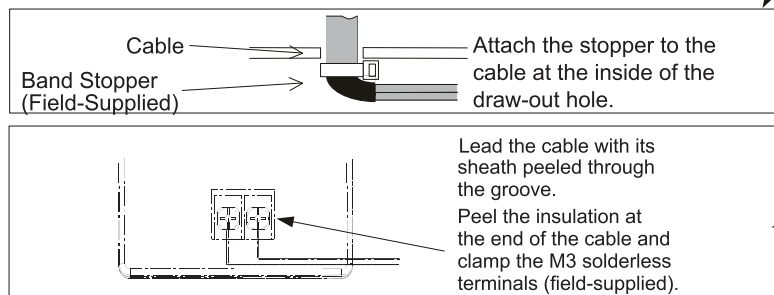
- 1) Insert the edge of the slotted screwdriver into the gap at the bottom of the holding bracket, push and turn the slotted screwdriver and then remove the controller from the holding bracket.
- 2) Attach the controller to the holding bracket and connect the cable as follows.



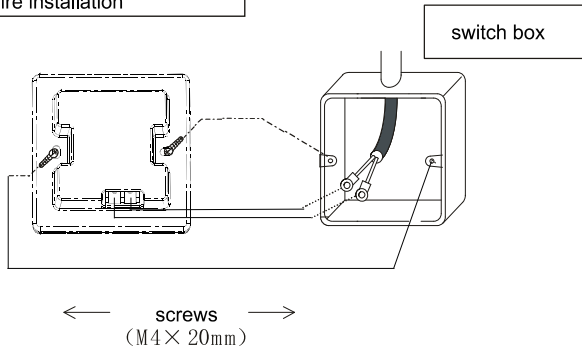
View from the bottom of remote control



A. In Case of Exposing Remote Control Cable

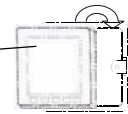


B. Wire installation



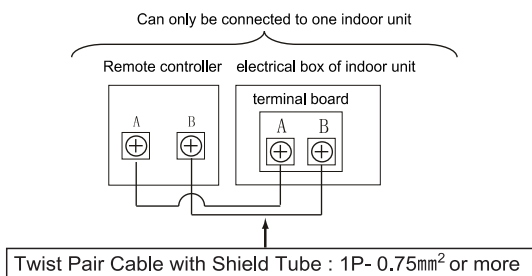
- 3) Inset upside case into base. Carefully clamp the cable when inseting.
- 4) Using choose keep the protective film on the LCD or not.

Protective film

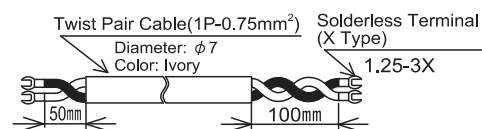


3. Electrical Wiring

ATTENTION: Always make sure to turn off the power of the indoor unit when performing electrical wiring work. Performing electrical wiring work with the power on can damage the circuit boards of the indoor unit and the remote control switch.



Remote Control Cable <Option>



The number of □ indicates the length (m) of the cable (□ = 5, 10, 15).

Attention

- Use a 0.3 to 0.75mm² cable for connecting. The maximum total cable length is up 30m. If the total cable length exceeds 30m, use a twist pair cable with shield tube (1P - 0.75mm² or more). In that case, the maximum total cable length is up to 500m. If using in combination with the control timer, the allowable total cable length is up to 100m. The use of a cable other than that specified above can cause of malfunction due to the effects of noise.
- Keep a distance more than 30cm between the transmission line (remote control switch cable and transmission wires) and power source of the indoor units. If not, the air-conditioner may not operate properly or malfunction may occur due to effect of power source noise.
- No gap shall exist between the remote control switch cable and hole of the remote control switch case. If there is a gap, cover the gap with vinyl tape. If not, malfunction may occur due to entrance of water droplets or insects.
- Make sure the remote controller half the meter away of the fluorescent lamp at least, when assembling.

4. TEST RUN

1) Turn on power

Turn ON the power supply for all the indoor units.

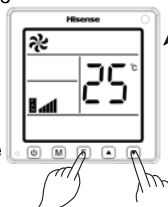
Attentions

Although a portion of the LCD (liquid crystal display) of the remote control switch may light immediately after the power is turned on, this is not a malfunction.

2) For the models with the auto-address function, wait for 3 minutes approximately. The addressing is automatically performed. (There is a case that 5 minutes is required according to the setting condition.)

3) TEST RUN mode

Set the "TEST RUN" mode by pressing the [M] and [▽] simultaneously for more than 3 seconds.



★ Display on LCD (test run)

★ The total number of the indoor units connected is indicated on the LCD.



Can only be connected to one indoor unit

- In case that the indicated number is not correct, the auto-address function is not performed correctly due to incorrect wiring, the electric noise or etc. Turn OFF the power supply and correct the wiring after checking the following points; (Do not repeat turning ON and OFF within 10 seconds.)
 1. Power Supply for Indoor Unit is Not Turned ON or Incorrect Wiring.
 2. Incorrect Connection of Connecting Cable between Indoor Units or Incorrect Connection of Controller Cable
 3. Incorrect Setting of Rotary Switch and Dip Switch (The setting is overlapped.) on the Indoor Units PCB

Attention



When "00" is indicated, the auto-address function may be performing. UNIT Cancel the "TEST RUN" mode and set it again.

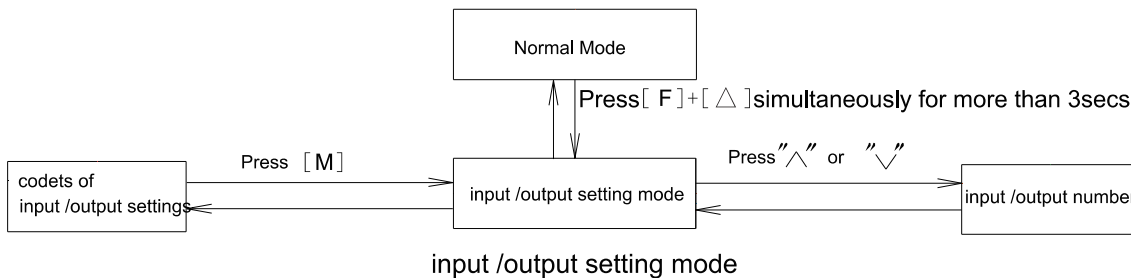
4) Canceling "TEST RUN" Mode

- ① No operating
- ② Operating

pressing the [M] and [▽] simultaneously for more than 3 seconds.

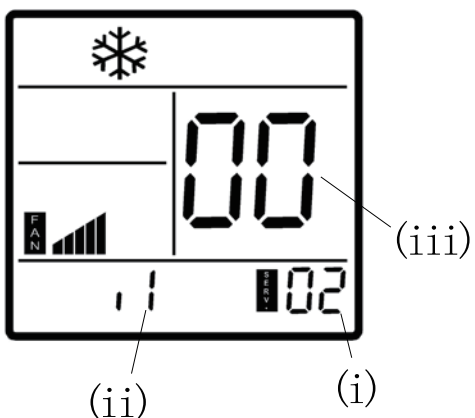


5. Input / Output Setting of Indoor Unit



- (1) Normal Mode (When unit is not operating), Press [F]+[Δ]simultaneously for more than 3secs to change to the input /output setting mode.
- (2) Under input /output setting mode, press [Δ]or[▽] to choose input /output number.
- (3) Under input /output setting mode, press [M] to choose codes of input /output settings.

input /output setting mode



- (i) Service code display 02
- (ii) input /output number
- (iii) Codes of input /output settings

•Table A Input and Output Number Display and Connectors

Input number display		Port	Factory Setting		Setting
Input / Output	Indication		Setting Item	Indicaton	
Input1	11	CN3 1-2	Remote ON/OFF 1 (level)	03	
Input2	12	CN3 2-3	Forbidding Remote Control after Manual Stoppage	06	
Output1	01	CN7 1-2	Operation	01	
Output2	02	CN7 1-3	Alarm	02	
Output3	03	CN8 1-2	Thermo-ON for Heating	06	

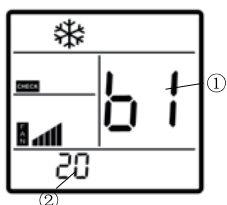
•Table B Input and Output Settings and Display Codes

Indication	Input	Output
00	Not set	Not set
01	Room Thermostat (for Cooling)	Operation
02	Room Thermostat (for Heating)	Alarm
03	Remote ON/OFF 1 (level)	Cooling
04	Remote ON/OFF 2 (Operation)	Thermo-ON for Cooling
05	Remote ON/OFF 2 (Stoppage)	Heating
06	Forbidding Remote Control after Manual Stoppage	Thermo-ON for Heating
07	Remote Cooling / Heating	Total Heat Exchanger Change

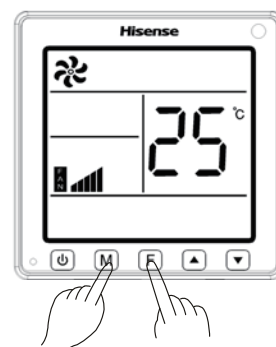
- After at least 3 minutes from the power ON, change the optional setting.
- Under input /output setting mode, the controller will turn into normal mode automatically without any button pressed between 10 mins.

6. Checking Procedures

Normal Mode (When unit is not operating), Press [F]+[M]simultaneously for more than 3 secs. There will display the latest alarming code at ①, and 00 will be displayed when no alarming. And then press [M] to change to CHECK mode.




- ① Check item. Initial item is b1.
- ② The value of item.




Introduction

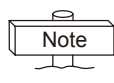
- Please do not assemble at the following situation
 - Oil (including machine oil) foam spray, with much steam
 - Place of vulcanization like hot spring
 - Place with combustible gas
 - Area with higher saltness, like coastal region
 - Place of acidity and alkalescence
- Medical equipment with electromagnetic wave, please do not put the signal face of electromagnetic wave directly to the remote control to avoid any misoperation. To avoid the influence of electromagnetic wave, please put the machinery, which could produce the electromagnetic wave, out of 3m.


Marks


 **Warning:**
Misoperation, might cause death and serious injury, grave consequences

 : Ban

 : Compel matter, guide unspecified user

 : Alarm, other matters of ATTENTION items.

 : Helping

 : Reference

Safety instruction

- Please read this safety instruction before using the product.
- The ATTENTION items is marked as 「**Warning**」
「**Warning**」 are the serious results that might cause by misoperation. Do follow it!
- Please keep this OPERATION INSTRUCTION, in case of needy

Installation . Electric execution



Warning

- Do entrust dealer or professional installation personnel who has execution licence. If not, might cause leakage, electric shock, fire or damage of machine dropping.

- Licence of electric execution is needed. Do entrust dealer who has execution licence. If install wrong, might cause electric shock and fire.



Safety instruction

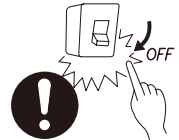
Revolver


Warning

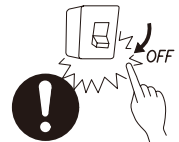
- Do not operating remote control using moist hand
Might cause electric shock.



- Safety instruction: restart constantly or the revolver button is unusual, do shut main power supply at once.



- When abnormal happened, like scorched smell, do stop all running and shut down main power supply. Otherwise it might cause electric shock, fire and other damage. Please contact with dealer or appointed service center.



Maintainance & move


Warning

- When maintain the machine, please contact with dealer or appointed service center. Improper maintainance and wrong assembling, might cause electric shock, fire and other damage.

- Please contact dealer or appointed service center , when maintain or move remote control. Improper maintainance and wrong assembling might cause electric shock, fire and other damage.

Other warnning and matters


Warning

- Do not let water inside, when maintaining.
Electric parts with water might cause electric shock.

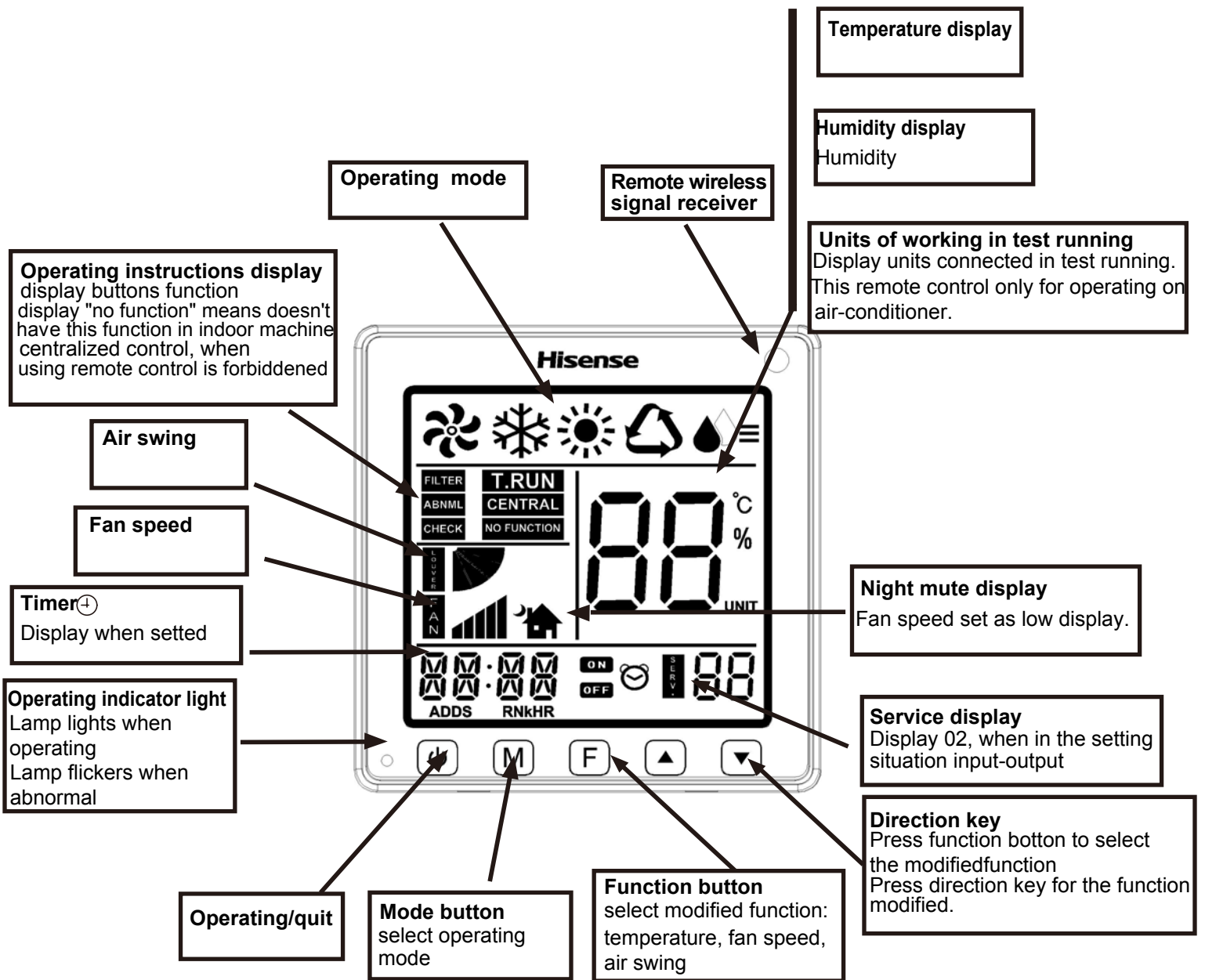
- Do not reform wiring by youself.
It might cause major accident.

- Do not shut down power supply in 3 mins, after operating buttons of remote control.
It might cause misoperation.

Each part name

Display part

(For the instructions below, display is different from reality.)




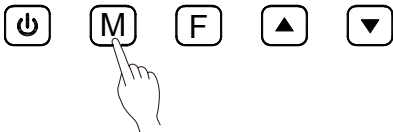

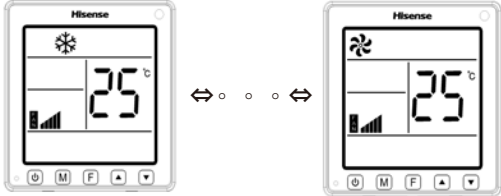
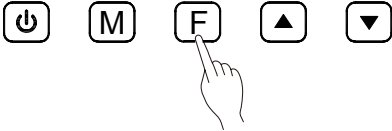

Operation part

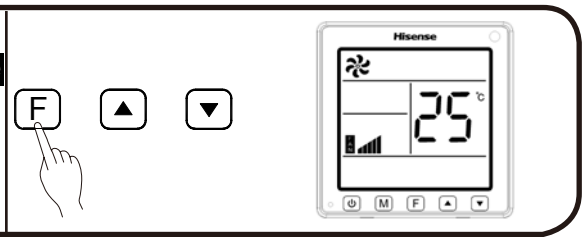


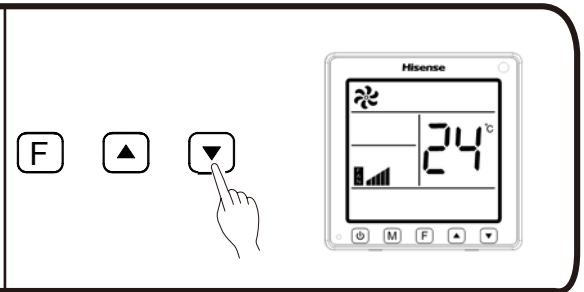
- Please use figure **softly touch** remote control's buttons
Do not press hard.

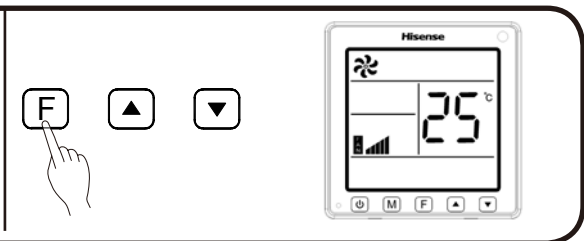
Cooling Heating Dry (Auto) Fan

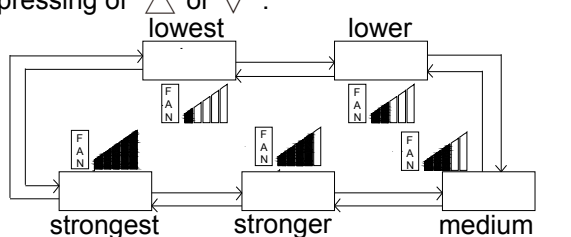
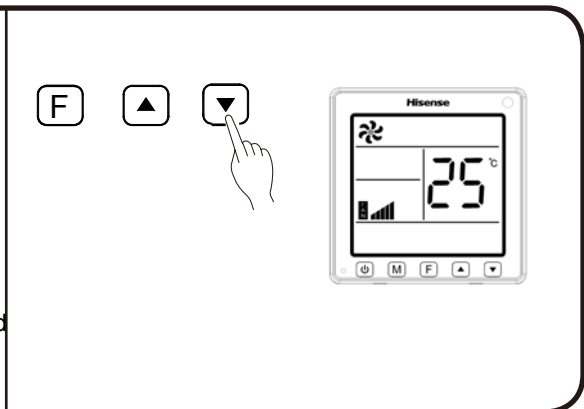
Only "shop/office heat pump air conditioner" and "Heat pump VRF for buildings" have function of heating; "shop/ office cooling only unit" and "cooling only unit VRF for buildings" are not.

<p>Ready</p>	<p>Plug in before operating, for protecting compressor.</p> <p>Do not interrupt, before operating.</p>	
<p>Mode selection</p>	<p>Press mode button, select operating mode</p>	
<p>Mode selection</p>	<p>Each press of mode button, operating mode will be changing in sequence: cooling-heating-dry-auto-fan-fan&heating-cooling</p> 	
<ul style="list-style-type: none"> ● Auto: operating mode, need further setting. More detail need to consult dealer. ● Fan&Heating: operating mode, only for Double heat source indoor unit. ● For Total Heat Exchanger,only one mode (FAN) can be displayed. 		
<p>Mode selection</p>	<p>Press function button,to set function</p>	
<p>Mode selection</p>	<p>Each press of function button, setting function will be changed in sequence: temperature-fan speed-air swing. Under starting up situation,air deflector display wind direction.</p>	

1	<p>Press function button, selecting setting temperature</p> <p>Display area flickering.</p>	
---	---	--

2	<p>Each press of button ▲, temperature rises by 1 degree, the upper limit is 30 degree.</p> <p>Each press of button ▼, temperature falls by 1 degree.</p> <p>(Cooling Dry, Fan....lowest 19) Heating...lowest 17</p>	
---	--	--

1	<p>Press function button, select FAN</p> <p>Display area flickering</p>	
---	---	--

2	<p>Fan speed modifies in sequence by each pressing of ▲ or ▼.</p>  <p>Lowest and strongest fan speed can only be exchanged when connecting with the unit having 5 level fan speed.</p>	
---	---	--

- In Dry mode, the lower fan speed can only be setted, and the fan speed could not be exchanged unless connecting with a fast dehumidification unit.

Timer setting

Function and operation

- Starting up timer.....after setting time, starting
- Shutting down timer..... after setting time, shutting down
- Starting up timer and shutdown timer could not be used combinedly.

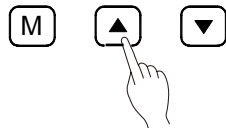
Starting up timer

Under halted state and without starting up timer setting, press **function button** for 3 secs., switch to the timer setting.
ON, clock and timer 7 code display flickering.



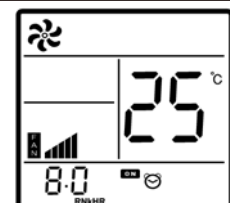
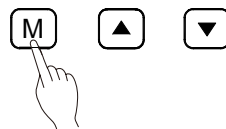
Each press of **button** \triangle , the time will increase 0.5h.(the length is 0.5h~24h)

Each press of **button** ∇ , timer will lessen 0.5h.(the length is 0.5h~24h)



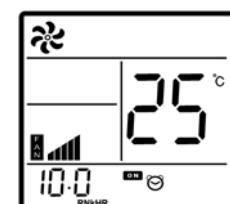
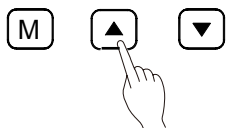
Shutting down timer

Under operating state and without starting up timer setting, press **function button** for 3 secs, switch to the timer setting.
ON, clock and timer 7 code display flickering.



Each press of **button** \triangle , timer will increase 0.5h.(the length is 0.5h~24h)




Each press of **button** ∇ , timer will lessen 0.5h.(the length is 0.5h~24h)



Operating method

<p>Operating</p>	<p>Press button </p> <p>Operating light goes on Start work.</p>		
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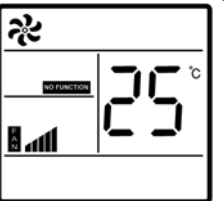

Temperature- air swing setting ● After setting, the state will be saved. Do not need daily setting.

<p>Quit</p>	<p>Re-press button </p> <p>Operating light goes out. Machine shut down.</p>		
--------------------	---	--	---

● After heating stop, indoor units will be blowing for 2 mins.

Other LCD display

Status display

Centralized control	<ul style="list-style-type: none"> ● CENTRAL display <p>When remote control setting is forbidden by centralized controller, the remote control could not be operated to change temperature, air swing and fan speed.</p>		
Filter screen	<ul style="list-style-type: none"> ● Filter screen display <p>Display the site of timing up of cleaning filter screen. Press mode button at less 3 secs., filter screen display disappear.</p>		
No function	<ul style="list-style-type: none"> ● No function display <p>The indoor unit has not this function or structure.</p>		
Alarm	<ul style="list-style-type: none"> ● Alarm display <p>flickering when any abnormality happening.</p>	i) Address of abnormal indoor unit. ii) Alarm code.	

 Other LCD display

Unusual display

Abnormal	<ul style="list-style-type: none">● Operating light flickering● LCD display the indoor address , system address and alarm code.
Power cut	<ul style="list-style-type: none">● All display disappear● When operating quit by power cut, start the controller manually after power on● Keep running,when the time of power cut is less than 2 secs .
Disturb	<ul style="list-style-type: none">● All display disappear, operating might quit. This is caused by disturbances. Please reset the running operation.

1 SAFETY SUMMARY

Hisense cannot anticipate every possible circumstance that might involve a potential hazard.



DANGER

- **DO NOT pour water into the remote controller. This product is equipped with electrical parts. If poured, it will cause a serious electrical shock.**
- **DO NOT perform installation work and electrical wiring connection by yourself. Contact your Hisense distributor or dealer and ask them for installation work and electrical wiring by service person.**



CAUTION

- DO NOT install the indoor unit, outdoor unit, controller and cable at such places as;
 - Where there is oil vapor and the oil is dispersed.
 - Where the hot springs are near (in a sulfuric environment).
 - Where generation, flowing, staying or leaking of flammable gas is detected.
 - Where the sea is near (in the salty environment).
 - An acid or alkaline environment.
- DO NOT install the indoor unit, outdoor unit, controller and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment. In case that the controller is installed in a place where there is electromagnetic wave radiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.
- In case that there is electric noise at the power source for the indoor unit, provide a noise filter.
- Use specified cables to connect between indoor unit and remote control switch. Selecting incorrect cables may lead to fire or electrical shock.



NOTE

- The installer and system specialist shall comply with local regulations or standards for the safety. The following standards may be applicable, if local regulations are not available. International Organization for Standardization, ISO5149 or European Standard, EN378 .
- Perform electrical work according to the Installation Manual. As for the electrical wiring work and check, turn OFF the main power supply before opening/closing the service cover of indoor unit. If service cover is opened with main power supply left on, it may result in an electrical shock.
- It is assumed that this control remote will be operated and serviced by English speaking people. If this is not the case, the customer should add safety such as and operating signs in the native language for non English speakers.
- This manual should be considered as a permanent part of the air conditioning equipment and should remain with the air conditioning equipment.
- This appliance must be used only by adult and capable people, having received the technical information or instructions to handle this appliance properly and safely.
- Children should be supervised to ensure that they do not play with the appliance.
- Important: read and understand this manual before using this remote controller.

If you have any questions, contact your Hisense distributor or dealer.

2 INSTALLATION WORK

2.1 SELECTION OF INSTALLATION PLACE

Select a suitable place for handling and determine the installation place of the controller with the customer's acceptance.

Do not install the controller at such places as:

- Where children can touch.
- Where the air from the air conditioner is directly discharged.

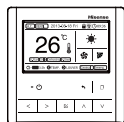
Especially in case that a Remote Controller thermostat is used, select the installation place in consideration with the following points:

- Where the average room temperature is detectable.
- Where the thermostat is not exposed directly to the sun.
- Where there is no source of heat.
- Where the thermostat is not affected with the outdoor air by opening and closing doors.

Prior to the installation work, ensure that foundation is flat, level and sufficiently strong and then fix the unit securely. If the foundation is not strong enough, it may lead to injuries caused by falling of the product, electrical shock or fire.

2.2 BEFORE INSTALLATION

Check the contents and the number of the accessories in the packing.



Remote control switch for operation control

1 Operation Manual

2 screws M4X25mm for fixing the holding bracket onto the wall

1 Magnetic ring

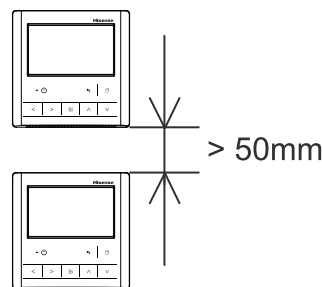
2 Terminals

1 Tie

2.3 INSTALLATION SPACE

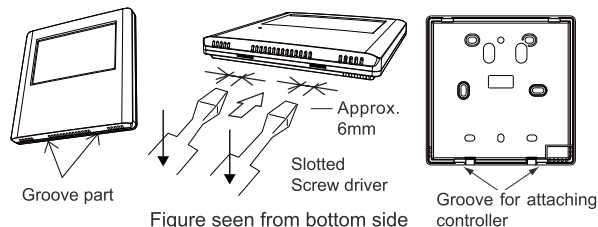
In case of installing the controllers in vertical line, keep a distance more than 50mm between the controllers vertically.

If the distance is insufficient, the controller can not be taken out.



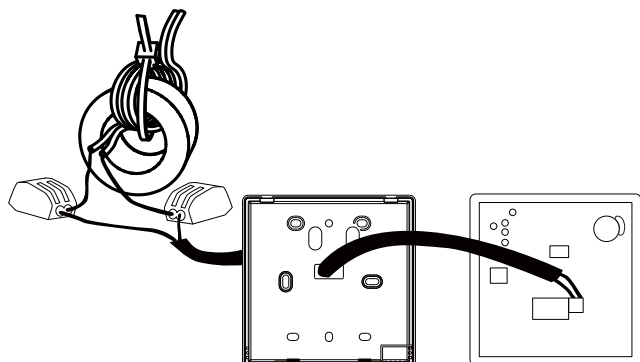
2.4 INSTALLATION PROCEDURES

- 1 Insert the edge of the slotted screwdriver into the groove at the bottom of the holding bracket, push and turn the slotted screwdriver and then remove the remote control switch from the holding bracket.



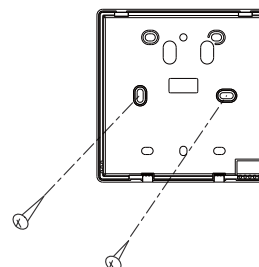
- 2 Connect the cable and attach the remote control switch to the holding bracket as follows:

First, use the terminals to connect the cable. Second, circle the cable around the magnetic ring 2 Laps. Last, use the tie to fasten the cable and the magnetic ring.



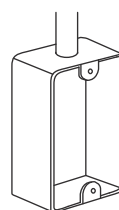
- ◆ In Case of Exposing Remote Control Cable

Fix the holding bracket onto the wall with screws (accessory).



- ◆ When Using Switch Box

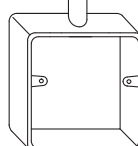
a. Prepare field-supplied Implanted Switch Box (JIS Box). (JIS C 8336-1988)



The following 5 types are available.

1. Switch Box for 1 Switch (Without Cover)
2. Switch Box for 2 Switches (Without Cover)
3. Switch Box for 1 Switch (With Cover)
4. Switch Box for 2 Switches (With Cover)
5. Outlet Box (With Cover)

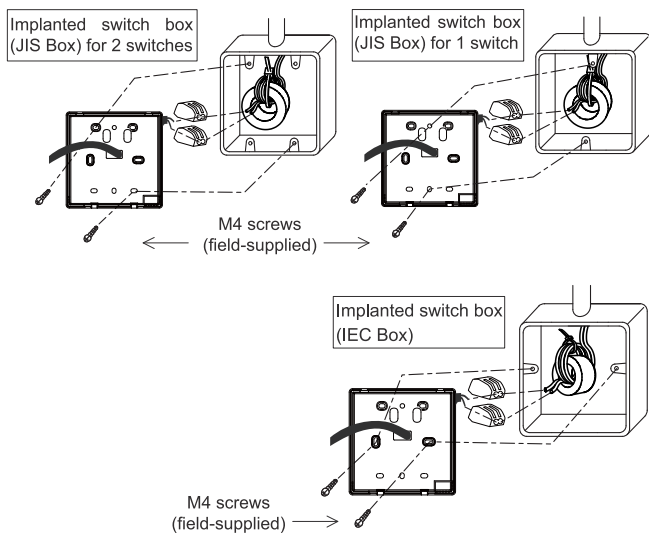
(IEC Box). (IEC 60690)



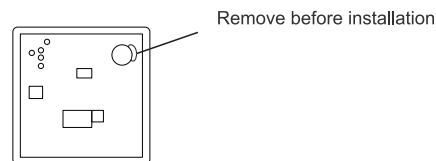
The following 3 types are available.

1. Switch Box for 1 Switch (Without Cover)
2. Switch Box for 1 Switch (With Cover)
3. Outlet Box (With Cover)

b. Lead the cable through the conduit tube in the wall.

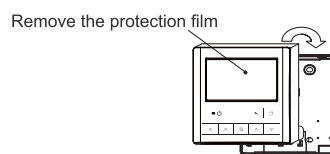


3 Tear down the electric leakage protective paper of the battery, before put it into use.



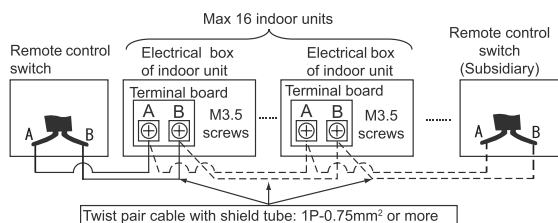
4 Attach the remote control switch to the holding bracket. Be careful not to pinch the cable when attaching it.

5 Remove the protection film from the liquid crystal display.



3 ELECTRICAL WIRING

Wiring Example (Using a twist pair cable with shield tube)



CAUTION

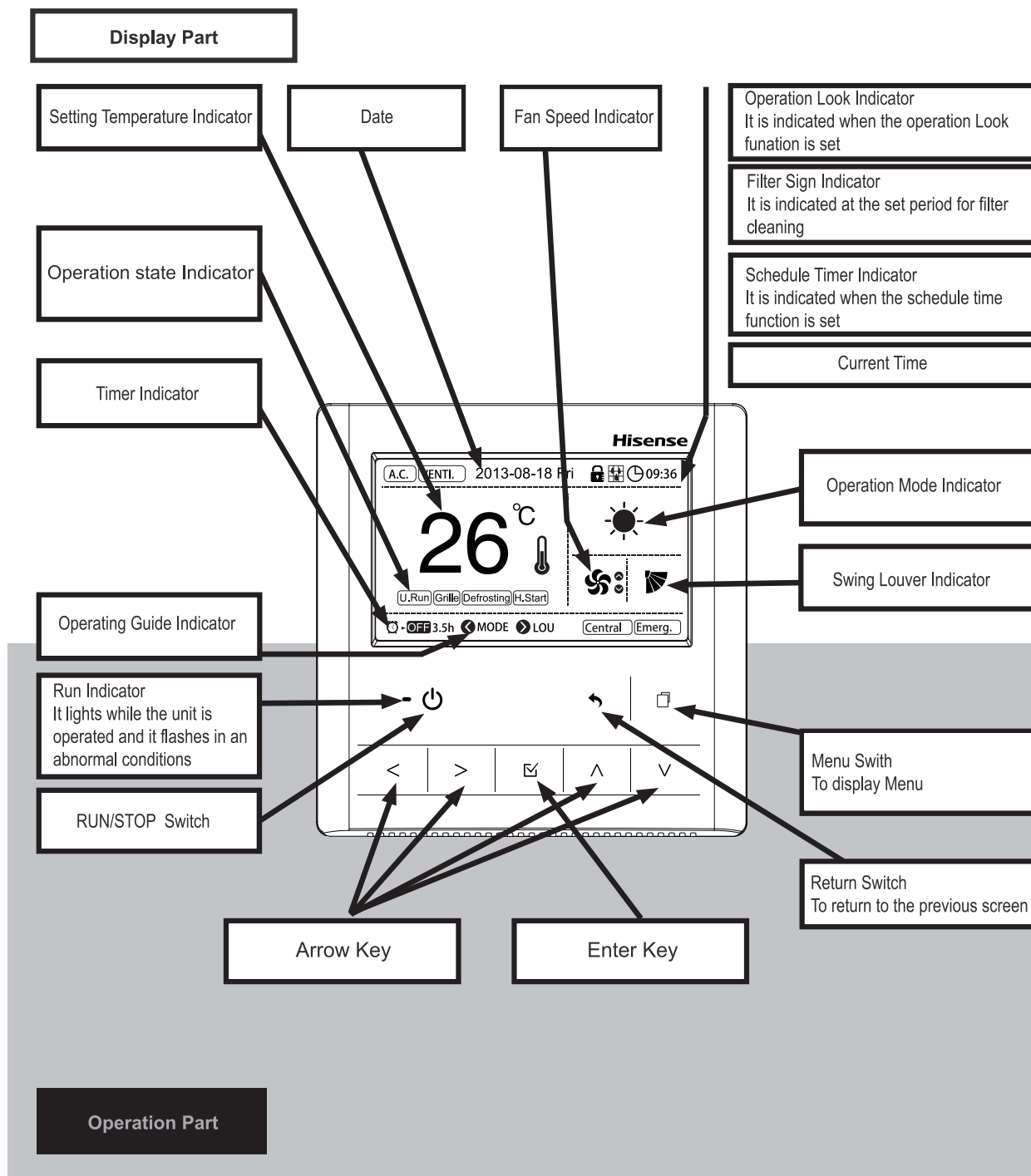
Always make sure to turn off the power of the indoor unit when performing electrical wiring work. Performing electrical wiring work with the power on can damage the circuit boards of the indoor unit and the remote control switch.

NOTE

- Use a 0.3 to 0.75mm² cable for connecting. The maximum total cable length is 30m. If the total cable length exceeds 30m, use a twist pair cable with shield tube (1P - 0.75mm²). In that case, the maximum total cable length is 500m. If using in combination with the control timer, the allowable total cable length is up to 100m. The use of a cable other than that specified above can cause of malfunction due to effects of noise.
- Keep a distance more than 30cm between the transmission line (remote control switch cable and transmission wires) and power source of the indoor units. If not, the air-conditioner may not operate properly or malfunction may occur due to effect of power source noise.
- In case of simultaneously controlling multiple indoor units, set the refrigerant cycle numbers and addresses of the indoor units without overlapping.
- Refer to the Technical Catalog provided with each indoor unit when performing electrical wiring work between the remote control switch and indoor units for setting the refrigerant cycle number and the indoor unit address.
- No gap shall exist between the remote control switch cable and hole of the remote control switch case. If there is a gap, cover the gap with vinyl tape. If not, malfunction may occur due to entrance of water droplets or insects.
- In case of operating with two remote control switches (Main and Sub), set the main and sub remote control switches by selecting the appropriate function with the remote control switches according to the chapter Function selection and setting. After setting it, turn off the power supply of all the indoor unit connected to the remote control switches.
- The control timer cannot be used together with this remote control switch.

4 SWITCH NAMES AND FUNCTIONS

The figure below shows all the indications for reference. The actual display during operation is different.



NOTE

- Do NOT press the switches hard or press with sharply pointed material such as a ball point pen. The operation part of the remote control switch may be damaged.
- Make sure that the switches are touched softly with fingers.

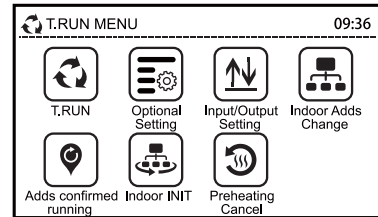
5 TEST RUN

(1) Turn ON the power supply for all the indoor units.

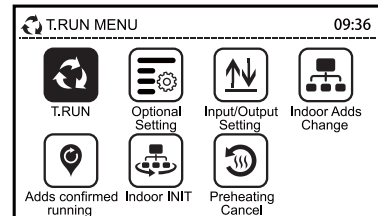
(2) For the models with the auto-address function, wait for 3 minutes approximately. The addressing is automatically performed. (There is a case that 5 minutes is required according to the setting condition.) After that, select using language from "Menu". Refer to the operation manual for details.

(3) Press and hold "☐" (menu) and "↵" (return) simultaneously for at least 3 seconds.

a. The test run menu will be displayed.

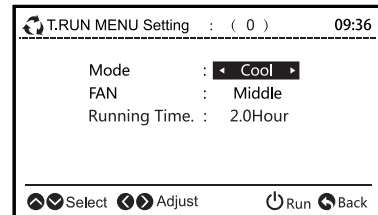


b. Select "☐" and press "↵". The test run settings will be displayed.

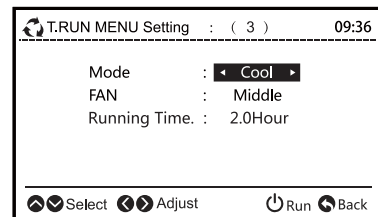


NOTE

When "0" is indicated, the auto-address function may be performing. Cancel "Test Run" mode and set it again.



(4) The total number of the indoor units connected is indicated on the LCD (liquid crystal display). The case of the twin combination (one (1) set with two (2) indoor units) is indicated " 2 ", and the triple combination (one (1) set with three (3) indoor units) is indicated " 3 ".



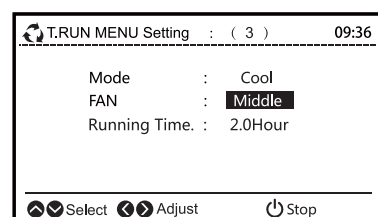
a. If the indicated number is not equal to the actual connected number of indoor unit, the auto-address function is not performed correctly due to incorrect wiring, the electric noise or etc. Turn OFF the power supply and correct the wiring after checking the following points; (Do not repeat turning ON and OFF within 10 seconds.)

- Power supply for indoor unit is not turned ON or incorrect wiring.
- Incorrect connection of connecting cable between indoor units or incorrect connection of controller cable.
- Incorrect setting of rotary switch and dip switch (the setting is overlapped) on the indoor units PCB.

b. Press "⏻" (run/stop) to start the test run.

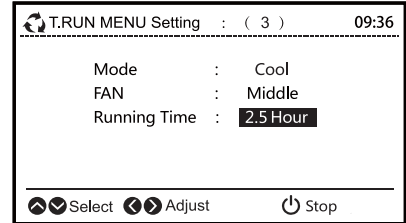
c. Press "< > ^ v" and set each item.

(5) Press "⏻" (run/stop). At this time, 2-hour OFF timer will be set automatically.

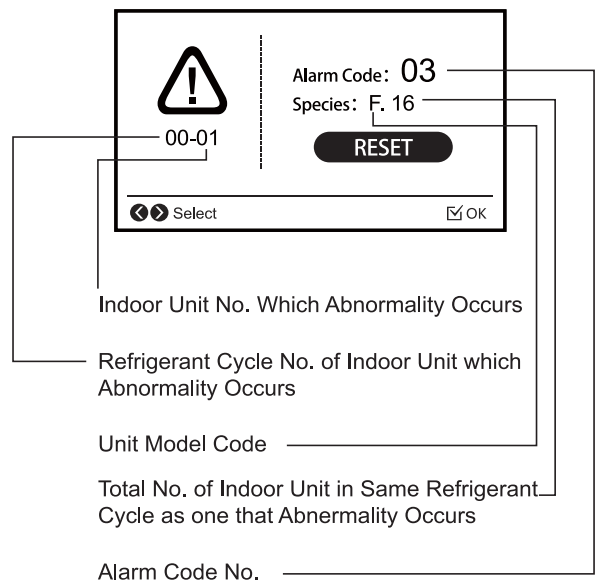


(6) The temperature detections by the thermistors are invalid though the protection devices are valid during the test run.

(7) To finish the test run, press “⏻” (run/stop) again or pass over the set test run time. When changing the test run time, press “^” or “v” to select “Running Time”. Then, set the test run time (30 to 600 minutes) by pressing “<” or “>”.



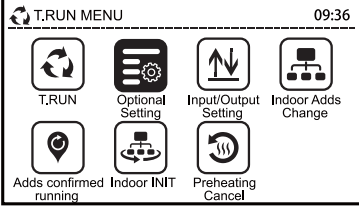

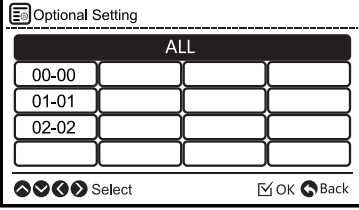


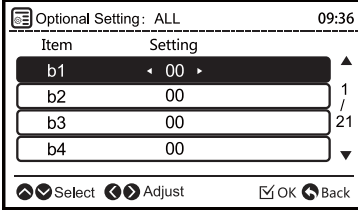
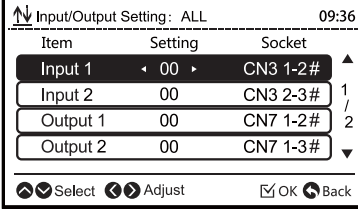
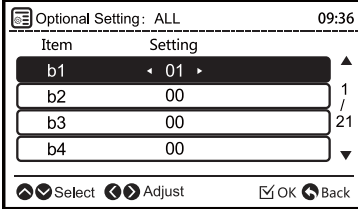
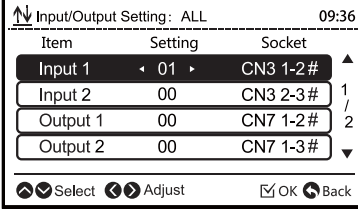




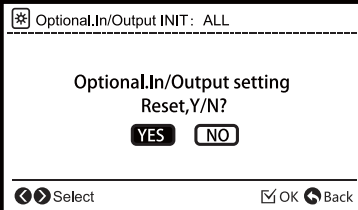



- The RUN indicator on the remote control switch flashes when some abnormalities such as protection devices activated occur during the test run as well as the RUN indicator (red) on the indoor unit flashes (0.5 second ON/ 0.5 second OFF). Additionally, the alarm code, the unit model code and connected number of indoor units will be displayed on the LCD as shown in the figure below. If the RUN indicator on HYXE-J01H flashes, it may be a failure in the transmission between the indoor unit and the remote control switch (loosening of connector, disconnecting wiring or breaking wire, etc.). Consult to authorized service engineers if abnormality can not be recovered.



6 FUNCTION SELECTION AND SETTING

◆ Function Selection and Input/Output

<p>(1) Press and hold “” (menu) and “” (return) simultaneously for at least 3 seconds during the normal mode (when unit is not operated). The test run menu will be displayed.</p>	
<p>(2) Select “Optional Setting” or “Input/Output Setting” from the test run menu and press “”.</p>	
<p>(3) Select the indoor unit by pressing “< > ^ v” and press “”.</p> <p>(This screen is NOT displayed when the number of indoor unit connected with the remote control switch is 1 (one). In this case, (4) will be displayed.)</p>	
<p>Function Selection</p> <p>(4) Press “^ v” and select the item.</p> 	<p>Input/Output Setting</p> <p>(4) Press “^ v” and select the item.</p> 
<p>(5) Press “< >” and change the setting.</p> 	<p>(5) Press “< >” and change the setting.</p> 
	<p>(6) Press “” so that the confirmation screen will be displayed.</p> <p>(7) Select “Yes” and press “”. The test run menu will be displayed after the setting is confirmed. If “No” is pressed, the screen will return to (4).</p> <p>(8) Press “” (return) on the test run menu to return to the normal mode.</p> 

To set other units, press “” (return) at (4)(5) so that the screen will return to (3). (If the number of indoor unit connected with the remote control switch is 1 (one), the screen will return to (1).)

◆ Table A Optional Setting Items for Function Selection

Items	Optional Function	Individual setting	Setting condition	Contents
b1	Cancellation of heating temperature compensation due to uneven heat load	○	00 01 02	Standard +4°C Removal (offset elimination) Set temperature +2°C (*1)
b2	Circulator function at heating Thermo-OFF	○	00 01	Not available Available
b3	Enforced 3 Minutes minimum operation time of compressor	○	00 01	Not available Available
b4	Change of filter cleaning time	○	00 01 02 03 04	Standard 100 hrs 1,200 hrs 2,500 hrs No indication
b5	Fixing of operation mode	×	00 01	Standard Fixed
b6	Fixing of setting temperature	×	00 01	Standard Fixed
b7	Fixing of operation as exclusive cooling unit	×	00 01	Standard Fixed
b8	Automatic COOL/HEAT operation	×	00 01	Not available Available
b9	Fixing of fan speed	×	00 01	Standard Fixed
bA	Not prepared	×	-	Not used
bb	Cooling temperature compensation due to uneven heat load	×	00 01 02	Standard (No Compensation) Set Temp. -1°C Set Temp. -2°C
bC	Not prepared	-	-	Not used (Use as 00 conditions)
bd	Not prepared	-	-	Not used (Use as 00 conditions)
bE	Not prepared	-	-	Not used (Use as 00 conditions)
C1	Cool only	○	00 01	Not available Available
C2	Not prepared	-	-	Not used
C3	HA function	○	00 01	Not available (Use as 00 conditions) Available
C4	Drain Pump Operation at Heating	○	00 01	Not available Available
C5	Hi speed (Except for Hi Speed at Heating Thermo-OFF)	○	00 01 02	Not available Hi Speed 1 (*2) Hi Speed 2
C6	Hi speed at heating Thermo-OFF	○	00 01	Not available Available
C7	Canceling of enforced 3 minutes minimum operation time of compressor	○	00 01	Standard Cancellation
C8	Thermistor of remote control switch	○	00 01 02	Not available Control by thermistor of remote control switch Control by average value of indoor suction thermistor and thermistor of remote control switch
C9	Not prepared	-	-	Not used
CA	Not prepared	-	-	Not used
Cb	Selection of forced stoppage logic	×	00 01	Forced stoppage input: A Contact Forced stoppage input: B Contact
CC	Not prepared	×	-	Not used (Use as 00 conditions)
Cd	Not prepared	-	-	Not used (Use as 00 conditions)
CE	Not prepared	-	-	Not used (Use as 00 conditions)
CF	Not prepared	-	-	Not used

Items	Optional Function	Individual setting	Setting condition	Contents
d1	Power supply ON/OFF 1	○	00 01	Not available Available
d2	Not prepared	-	-	Not used
d3	Power supply ON/OFF 2	○	00 01	Not available Available
d4	Prevention for cooling discharge air temperature decrease	○	00 01	Not available Available
d5	Prevention for heating discharge air temperature decrease	○	00 01	Not available Available
d6	Not used	-	-	Not used
d7	Humidity target	○	00 - 07	(*3)
E1	Not used	-	-	Not used
E2	Not used	-	-	Not used
E3	Not used	○	-	Not used
E4	Not used	-	-	Not used
E5	Not used	×	-	Not used (Use as 00 conditions)
E6	Not used	-	-	Not used
E7	Not used	-	-	Not used
E8	Not used	-	-	Not used
E9	Not used	-	-	Not used
EA	Not used	-	-	Not used
Eb	Fan operation control at cooling Thermo-OFF	○	00	Not available
			01	LOW
			02	SLOW
EC	Not prepared	-	-	Not used
Ed	Not prepared	-	-	Not used (Use as 00 conditions)

Items	Optional Function	Individual setting	Setting condition	Contents
EE	Automatic fan speed control	○	00 01	Not available Available
F0	Not prepared	-	-	Not used
F1	Not prepared	×	×	Not used
F2	Remote control main-sub setting	×	00 01	Main Sub
F3	Automatic reset of setting temperature (*4)	×	00 (*10) 01	Not available Available
F4	Automatic reset time	×	00 01 (*10) 02 03	30 min. 15 min. 60 min. 90 min.
F5	Automatic reset temperature for cooling (*5)	×	19 20 • • 25 • • 29 30	19°C 20°C • • 25°C (Factory setting) • • 29°C 30°C
F6	Automatic reset temperature for heating (*6)	×	17 18 • • 21 • • 29 30	17°C 18°C • • 21°C (Factory setting) • • 29°C 30°C
F7	Not prepared	-	-	Not used
F8	Lock function for operation mode selection	×	00 01	Not available Available (Factory setting)
F9	Lock function for temperature setting	×	00 01	Not available Available (Factory setting)
FA	Lock function for fan speed selection	×	00 01	Not available Available (Factory setting)
Fb	Lock function for swing louver operation	×	00 01	Not available Available (Factory setting)
FC	Cooling lower limit for setting temperature (*5)	×	00 01 02 • • 09 10	Standard Lower limit +1°C Lower limit +2°C • • Lower Limit +9°C Lower Limit +10°C
Fd	Heating upper limit for setting temperature (*6)	×	00 01 02 • • 11 12	Standard Upper limit -1°C Upper limit -2°C • • Upper limit -11°C Upper limit -12°C

Items	Optional Function	Individual setting	Setting condition	Contents
FE	Not prepared	-	-	Not used (Use as 00 conditions)
FF	Not prepared	-	-	Not used (Use as 00 conditions)
H1	Not prepared	-	-	Not used (Use as 00 conditions)
H2	Indication of hot start	x	00 01	Indication No indication
H3	Not prepared	-	-	Not used (Use as 00 conditions)
H4	Not prepared	-	-	Not used (Use as 00 conditions)
J1	Not prepared	x	-	Not Used
J2	Not prepared	-	-	Not Used
J3	Not prepared	x	-	Not Used
J4	Not prepared	-	-	Not used (Use as 00 conditions)
J5	Not prepared	x	-	Not used (Use as 00 conditions)
J6	Not prepared	x	-	Not Used
J7	Wide range of louver direction(COOL)	x	00 01	Not available Available
J8	Eco-operation (*7)	x	00 01	Not available Available
J9	Not prepared	-	-	Not used (Use as 00 conditions)
JA	Not prepared	-	-	Not used (Use as 00 conditions)
Jb	Not prepared	-	-	Not used (Use as 00 conditions)
K1	Not prepared	x	-	Not used
K2	Not prepared	x	-	Not used
K3	Not prepared	x	-	Not used
K4	Not prepared	-	-	Not used

*1: The "02" setting may not be available according to the type of indoor unit.

*2: In case of AVD models, 00: standard, 01: high static pressure, 02: low static pressure

*3:

d7 Mode	00	01	02	03	04	05	06	07
	70%	65%	60%	55%	50%	80%	75%	70%
	50%	45%	40%	35%	30%	60%	55%	50%

*4: In case that the set temperature is changed and kept within the set time at "F4", the temperature is automatically changed to "F5" and "F6". (In case that the set temperature is out of range at "F5" and "F6", it is applied within upper and lower limit for the set temperature.)

*5: Applicable to fan, cooling and dry operation modes.

*6: Applicable to heating operation mode.

*7: When the unit is restarted by the remote control switch, the temperature automatically changes to the setting temperature of "F5" or "F6".



NOTE

- After at least 3 minutes from the power ON, change the optional setting.
- The optional settings are different according to the indoor and outdoor unit models. Check to ensure that the unit has the optional setting or not.
- Record the setting conditions for each optional setting in the "Setting" column of the table.

◆ Table B Input and Output Number Display and Connectors

Input number display	Port	Factory setting	
Input/Output indication		Setting item	Indication
Input 1	CN3 1-2	Remote ON/OFF 1 (Level)	03
Input 2	CN3 2-3	Prohibiting Remote Control after Manual Stoppage	06
Output 1	CN7 1-2	Operation	01
Output 2	CN7 1-3	Alarm	02
Output 3	CN8 1-2	Thermo-ON for Heating	06

◆ Table C Input and Output Settings and Display Codes



Indication	Input	Output
00	Not set	Not set
01	Room Thermostat (for Cooling)	Operation
02	Room Thermostat (for Heating)	Alarm
03	Remote ON/OFF 1 (Level)	Cooling
04	Remote ON/OFF 2 (Operation)	Thermo-ON for Cooling
05	Remote ON/OFF 2 (Stoppage)	Heating
06	Forbidding Remote Control after Manual Stoppage	Thermo-ON for Heating
07	Remote Cooling / Heating Change	Total Heat Exchanger
08	Elevating Grille Input	Elevating Grille Output






 **NOTE**

- After at least 3 minutes from the power ON, change the optional setting.
- The elevating grille input can be set to "Input 2" only.
- The elevating grille cannot be set to "Input 1".
- The elevating grille output can be set to "Output 1" or "Output 2" only.
- The elevating grille output cannot be set to "Output 3".
- Record the setting conditions for each input and output in the "Setting" column of the table.

◆ Indoor Unit Address Change

This function changes the address (refrigerant cycle number and indoor unit number) of indoor units. If this setting is done, it will take priority over DIP Switch setting.





(1) Press and hold “” (menu) and “” (return) simultaneously for at least 3 seconds during the normal mode (when unit is not operated). The test run menu will be displayed.

(2) Select “Indoor Adds Change” from the test run menu pressing “    ” and “ ”.

(3) Select the indoor unit by pressing “    ” and press “ ”.

* Indoor units which are not supporting “Indoor Adds Change” function can not be selected.


(4) Determine the new indoor unit address.

Press “    ” to switch the refrigerant cycle number and address in range of 00-63.

To display confirmation screen press “ ”.



* “ R.N No.99” is used as a temporary address only when all the cycle numbers and unit numbers are in use (occupied).

If “ R.N No.99” is used temporarily, the address must be changed within the standard range of 00-63.

(5) The confirmation screen will be displayed. Select “Yes” and press “ ” to start address change process. Result will be displayed in seconds. If “No” is pressed, the screen will go to (6).

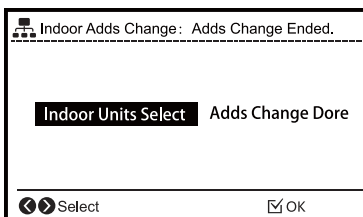
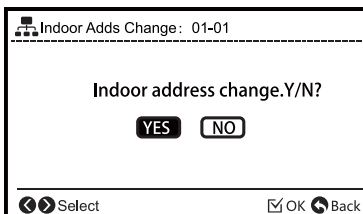
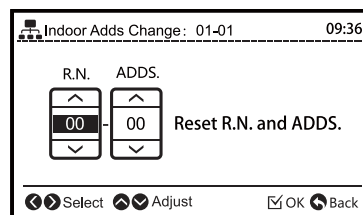
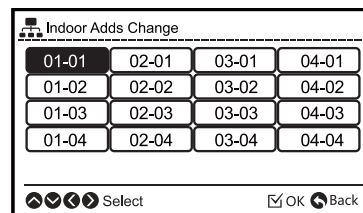
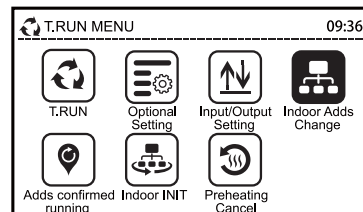
*When the process successfully completes, “ Adds Change Ended ” will be displayed.

Otherwise the process has been failed. Check the setting and contents again.

(6) To change the address for another indoor unit, select “ Indoor Units Select ” and press “ ”. the screen will return to (3). To finish this function select “ Adds Change Done ” and press “ ”.

*If “ Indoor Adds Change” is successfully completed, connection check will be started automatically.

(7) Turn OFF the power supply of the indoor units for 3-5 minutes. Wait until the remote control switches display turn off, and turn ON the power supply of indoor units again.



 NOTE

- “ Indoor Adds Change ” is not available when the control of 2 remote control switches (main and sub) are used.
- Do not operate from the central controlling devices while “ Indoor Adds Change” is performed by the remote control switch.
- This function should not be used if there is a Central Control in the H-NET.

◆ Address Check Operation

This function is used to check the relation between the indoor unit and I.U. address. This operation is effective when multiple indoor units are connected to the remote control switch and address of the certain unit is unknown.

(1) Press and hold “” (menu) and “” (return) simultaneously for at least 3 seconds during the normal mode (when unit is not operated). The test run menu will be displayed.

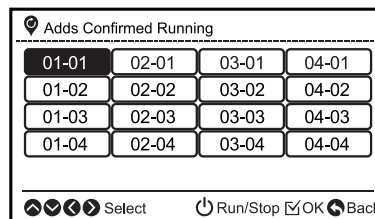
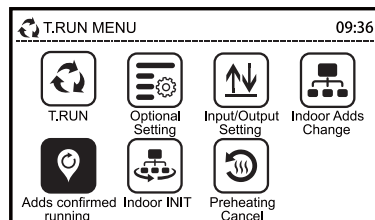
(2) Select “Adds confirmed running” from the test run menu pressing “ <>” and “”.

(3) Select the indoor unit by pressing “< > ”.

(4) To start operation of the indoor unit selected in (3) press “” (run/stop). To return to (3) screen press “” (run/stop) while indoor units is operated.

*Repeat (3)-(4) until desired indoor unit address is confirmed.

(5) To return to the test run menu press “” (return) while indoor unit is not operated.



NOTE

- “Adds confirmed running” is not available when the control of 2 remote control switches (main and sub) are used.
- The switch operation other than “Run/Stop” is not available while “Adds confirmed running” is performed.
- Do not operate from the central controlling devices while “Adds confirmed running” is performed by the remote control switch.
- This function should not be used if there is a Central Control in the H-NET line.

◆ Indoor Unit Address Initialization

This function initializes the indoor unit address that has been changed by “Indoor Adds Change” function or set by the automatic address allocation. Initializing the address by this function, indoor unit address will be changed to the dip switch setting.

(1) Press and hold “” (menu) and “” (return) simultaneously for at least 3 seconds during the normal mode (when unit is not operated). The test run menu will be displayed.

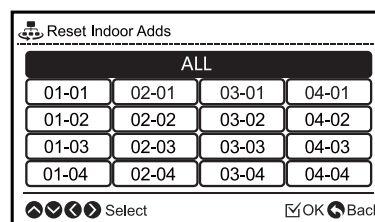
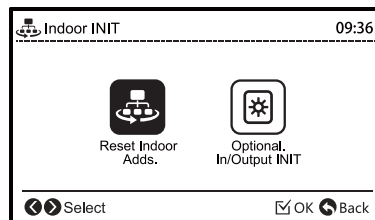
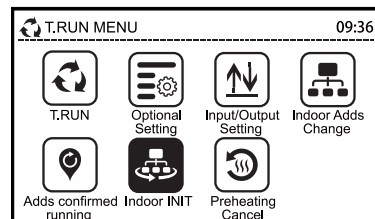
(2) Select “Indoor INIT” from the test run menu pressing “ <>” and “”.


(3) Select the “Reset Indoor Adds” by pressing “< >” and “”

(4) Select the indoor unit by pressing “< > ” and press “”. The confirmation screen will be displayed.

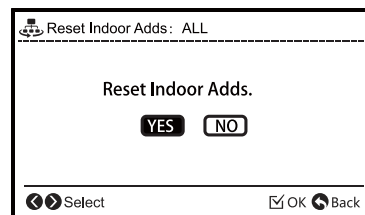
*Indoor units which are not supporting “Reset Indoor Adds” function can not be selected.

The address of indoor unit that does not support “Reset Indoor Adds” function will not be initialized even when “All” is specified.





(5) Select “Yes” and press “” to start the address initialization process.

*If the address initialization is successfully completed, connection check will be started automatically.

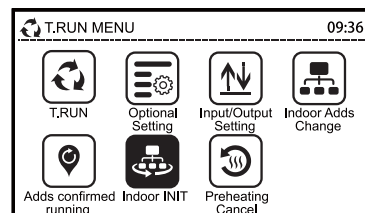


◆ Options and Input/Output Initialization

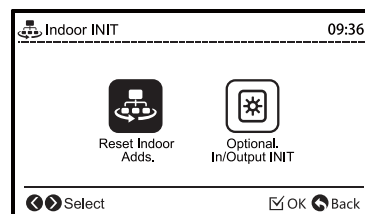
This function re-establishes the function selection and Input/Output values to factory setting values.

(1) Press and hold “” (menu) and “” (return) simultaneously for at least 3 seconds during the normal mode (when unit is not operated). The test run menu will be displayed.

(2) Select “Indoor INIT” from the test run menu pressing “   ” and “”.

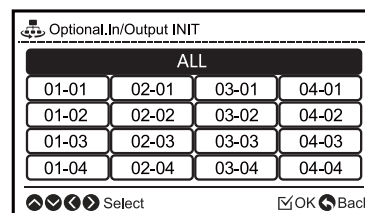



(3) Select “Optionad.In/Output INIT ” from the test run menu pressing “ ” and “”.



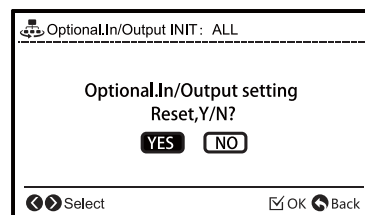
(4) Select the indoor unit by pressing “   ” and press “”.


*This screen is not displayed when the number of indoor units connected with the remote control switch is 1 (one). In this case, (5) will be displayed.



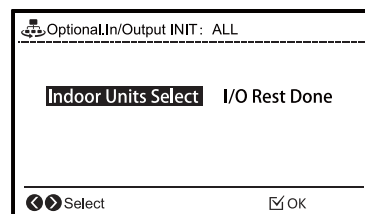
(5) To start initialization, select “Yes” and press “” on the confirmation screen. It takes approx. 30 seconds to complete the process.

*Check that initialization will not cause any problems, and then start the initialization work.



(6) Select “I/O Reset Done” and press “”. The “Indoor INIT” menu will be displayed.

To initialize setting for the other indoor units, select “Indoor Units select” and press “”. The screen will return to (4).








 NOTE

- “No Function” will be indicated when the indoor unit that does not support the initialization function for “ Optional setting ” and “Input/Output Setting”.
- The setting for indoor units that does not support the initialization function for “ Optional setting ” and “Input/Output Setting” will not be initialized even when “All” is specified at item (4).


◆ Compressor Preheating Cancellation


This function cancels the compressor preheating control.

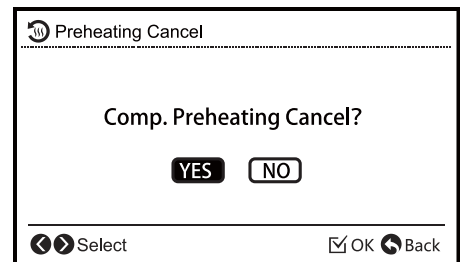
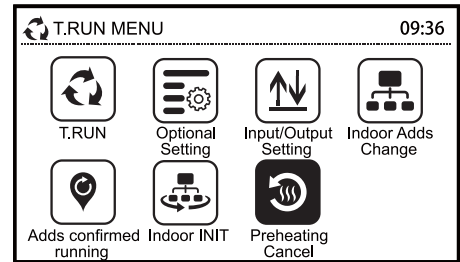
(1) Press and hold “” (menu) and “” (return) simultaneously for at least 3 seconds during the normal mode (when unit is not operated). The test run menu will be displayed.

(2) Select “Preheating Cancel” from the test run menu pressing “  < >” and “”.

(4) The confirmation screen will be displayed.

(5) Select “Yes” and press “”. The test run menu will be displayed after the setting is confirmed. If “No” is pressed, the screen will return to test run menu.

(6) Press “” (return) on the test run menu to return to the normal mode.



7 ELEVATING GRILLE SETTING/CANCELLATION

This function is available to set the elevating grille setting/cancellation for the all connected indoor units with the elevating grille function. It is set to the external input 2, external output 1 and 2 as following procedure.

◆ Elevating Grille Setting/Cancellation Procedure

- (1) Press and hold “☐” (menu) and “↵” (return) simultaneously for at least 3 seconds during the normal mode (when unit is not operated). The test run menu will be displayed.
- (2) Select “Input/Output Setting” from the test run menu and press “☑”
- (3) Select the indoor unit by pressing “< > ^ v” and press “☑”. (This screen is NOT displayed when the number of indoor unit connected with the remote control switch is 1 (one). In this case, (4) will be displayed.)



Elevating Grille Setting

(4) Select “Input 1” at “Input/Output Setting” screen, press and hold “^” for a moment (approx. 3 sec.). The confirmation screen for “Elevating Grille Setting” will be displayed.

Item	Setting	Socket
Input 1	< 00 >	CN3 1-2#
Input 2	00	CN3 2-3#
Output 1	00	CN7 1-2#
Output 2	00	CN7 1-3#

Elevating Grille Cancellation

(4) Select “Output 3” at “Input/Output Setting” screen, press and hold “v” for a moment (approx. 3 sec.). The confirmation screen for “Cancel Elevating Grille Setting” will be displayed.

Item	Setting	Socket
Output 3	< 00 >	CN8 1-2#

(5) Select “Yes” and press “☑” to confirm the setting. If “No” is pressed, the screen will return to (4).

(5) Select “Yes” and press “☑” to confirm the cancellation. If “No” is pressed, the screen will return to (4).



- (6) Press “↵” (return) on the test run menu to return to the normal mode.



NOTE


- In case of using by two remote control switches (Main and Sub), the settings shall be operated by the main remote control switch.
- If “All” is selected at (3), this setting is set to all the indoor units connected to the remote control switch regardless of the actual elevating grille.
- Please note that when functions other than the elevating grille have been set for input 2 and output 1 and 2, those settings are cleared (Namely, the elevating grille function will be overwritten).


8 CHECK MENU

Each “Check Menu” item and its function are explained in the following table.

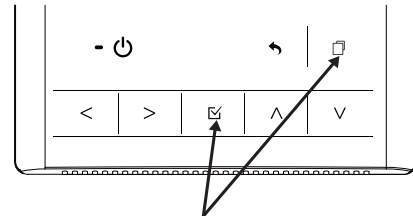
Check menu item	Function
Check 1	Sensor condition of air conditioner will be monitored and indicated.
Check 2	Sensor data of air conditioner prior to alarm occurrence will be indicated.
Alarm Record	Previous alarm record (date, time, alarm code) will be indicated. ※
Species	Model name and manufacturing number will be indicated.
IDU/ODU Diagnosis	The result of PCB check will indicated.
Self Diagnosis	Checking of remote control switch will be carried out.



※ To Erase Alarm Record

Press “” when the abnormality record is indicated. After that, the confirmation screen will be displayed.

Select “Yes” and press “” so that the alarm record will be deleted.

Indication of Check Menu



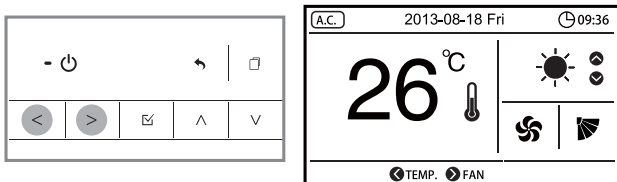
Press and hold “” (menu) and “” simultaneously for at least 3 seconds during the normal mode. The check menu will be displayed.

9 OPERATION METHOD

9.1 BASIC OPERATION

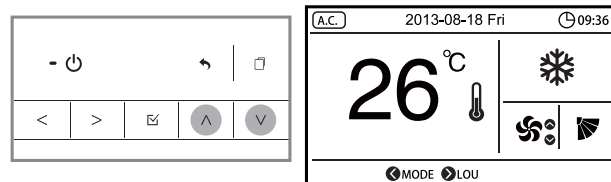
1 Item Selection.

By pressing “<” or “>”, the icon “” will move to the next item in order of the indications “MODE”, “FAN”, “LOU.” and “TEMP”.



2 Change of Settings

With the item (“MODE”, “FAN”, “LOU” or “TEMP”) selected, press “^” or “v”. The setting will be changed.



9.2 OPERATION MODE (COOLING, HEATING, DRY, COOLING/HEATING AUTOMATIC AND AIR FLOW OPERATION)

◆ Function

- Cooling Operation ():


To decrease the room temperature.

- Heating Operation ():

To increase the room temperature.

- Dry Operation ( ,  ,  , ):

To decrease the humidity in the room.

- Cooling/Heating Automatic Operation ():

To cooling and heating automatic changeover.

- Air Flow Operation ():

To circulate the air in the room.



NOTE

The available set temperature is as follows:

- Cooling Operation: 19 to 30°C
- Heating Operation: 17 to 30°C
- Dry Operation: 19 to 30°C

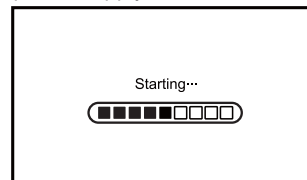
◆ Before Operation



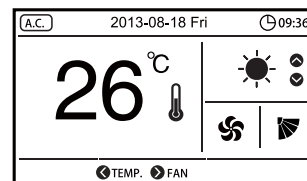
CAUTION

- Supply the electrical power to the system for approximately 12 hours before start-up after long shutdown. Do not start the system immediately after the power supply, it may cause a compressor failure, because the compressor is not heated well. Do NOT turn OFF the power supply during the seasons.
- Make sure that the outdoor unit is not covered with snow or ice. If covered, remove it by using hot water (less than 50°C).
- If the water temperature is higher than 50°C, it will cause damage to plastic parts.

1 Turn ON the power supply.



2 Press “<” or “>” and select “MODE”.

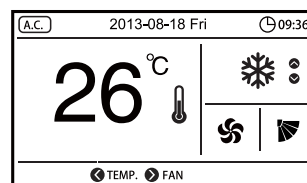


3 By pressing “^” or “v”, the operation mode will be changed as follows.



NOTE

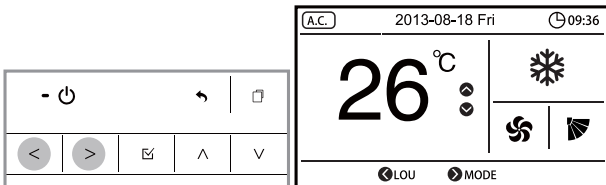
- The advanced setting is required for the “AUTO” operation. Contact your distributor or dealer of Hisense for detailed information.
- The mode in the parentheses may not be available depending on the indoor unit type.



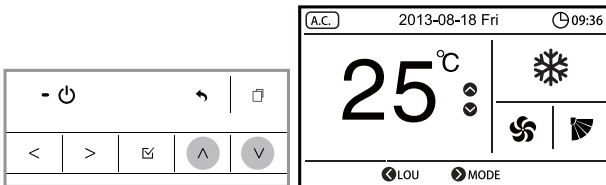
10 SETTING METHOD

10.1 TEMPERATURE SETTING

1 Press “<” or “>” and select “TEMP”.



2 By pressing “^”, the temperature is increased by 1°C. (Max. 30°C). By pressing “v”, the temperature is decreased by 1°C. (Cooling, Dry, Air Flow operation: Min. 19°C) (Heating operation: Min. 17°C).

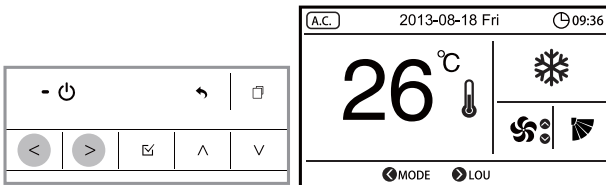


NOTE

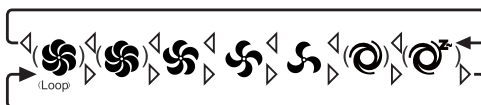
The max/min temperature is available to change by setting the cooling lower limit for setting temperature (or heating upper limit for setting temperature) from the function selection.

10.2 FAN SPEED

1 Press “<” or “>” and select “FAN”.

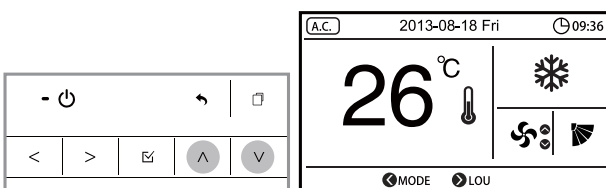


2 By pressing “^” or “v”, the fan speed will be changed as follows.



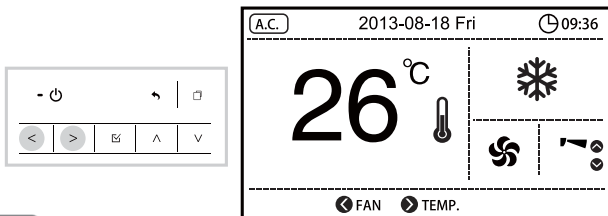
NOTE

- During the dry operation, the fan speed is automatically changed to “LOW” and cannot be changed to other fan speed. (“LOW” will NOT be displayed on LCD (liquid crystal display) at this time. The present setting condition will be displayed on LCD).
- The fan speed settings in the parentheses may not be available depending on the indoor unit type.



10.3 SWING LOUVER DIRECTION

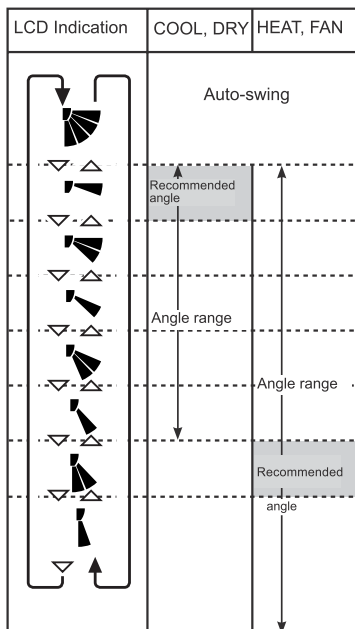
1 Press "⏻" (run/stop). Make sure that the operation is started. Press "<" or ">" and select "LOU".



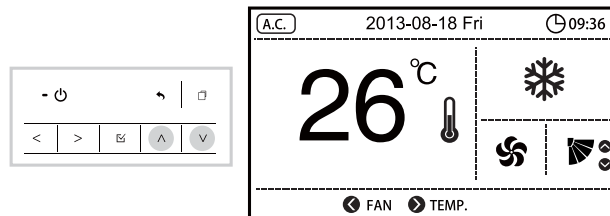
i NOTE

For the indoor unit without the auto louver mechanism, the indication of "LOU." will NOT be displayed on LCD.

2 By pressing "▲" or "▼", the louver direction will be changed as follows.



: Auto swing operation will be started. At this time, the louver will swing repeatedly on LCD.



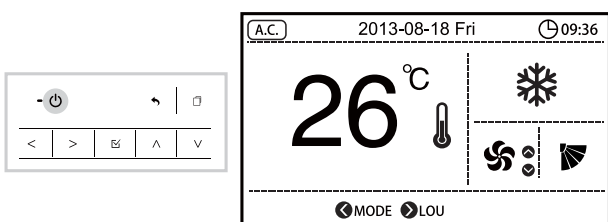
i NOTE

- The air flow angle is different for each indoor unit type. Check Installation & Operation Manual for Indoor Unit to be used for the detailed information.
- Louver position on LCD and the actual louver position may not match during the auto swing operation. To fix the louver positions, set the angle after checking the position on LCD.
- The louver may NOT stop immediately right after the switch is pressed.

11 OPERATION

11.1 OPERATION START

Press "⏻" (run/stop). The run indicator will be turned on and the operation will be started.

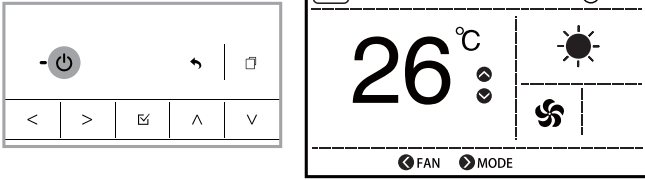


i NOTE

- Temperature/Air Flow Setting
- The setting condition will be memorized once after the setting is confirmed, therefore the daily setting is not required. In case that the setting change is required, refer to the Operation Method and Setting Method chapters.

11.2 OPERATION STOP

Press “⏻” (run/stop) again. The run indicator will be turned off and the operation will be stopped.



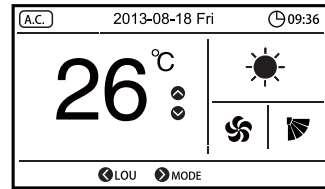
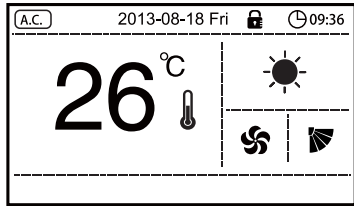
i NOTE

After the heating operation is stopped, the air flow operation may be activated for approximately 2 minutes.

11.3 OPERATION LOCK

- This function is used to lock the setting from the remote control switch.
 - The following functions are applicable.
 - a. Operation Mode (MODE)
 - b. Temperature Setting (TEMP)
 - c. Fan Speed (FAN)
 - d. Swing Louver Direction (LOU)
- 1 Setting of the operation lock, press “>” and “↶” (return) simultaneously for 3 seconds. The icon of “🔒” will be turned ON. Even when “<” or “>” is pressed, locked setting items will be skipped.

- 2 Cancellation of the operation lock, press “>” and “↶” (return) simultaneously for 3 seconds. “🔒”



i NOTE

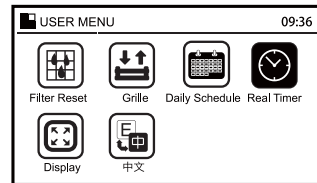
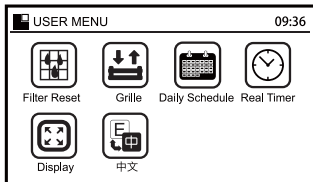
- Every time pressing “>” and “↶” (return) simultaneously for 3 seconds, the operation lock state will be switched alternately to locked/unlocked.
- Select the functions to lock at the function selection setting. Contact your distributor or dealer of Hisense for detailed information.

12 MENU OPERATION

12.1 MENU

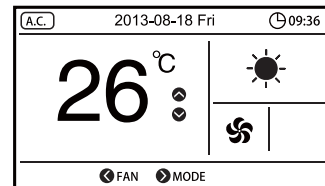
Every setting function is displayed in the menu. Refer to the following sections for each function.

- 1 Press “☰” (menu). The menu will be displayed.



Press “↶” (return) to return to the normal mode (Operation Mode Indication).

- 2 Select the function by pressing “^v<>” and press “☑”.



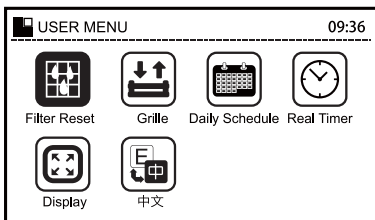
i NOTE

If the menu screen remains unchanged for approximately 10 minutes, the screen will automatically return to the normal mode.

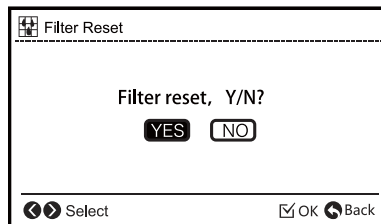
12.2 FILTER SIGN RESET

This function is used to turn off the filter sign indication.

- 1 Select "Filter Reset" from the menu and press "☑". The confirmation screen will be displayed.



- 2 Select "Yes" by pressing ">" or "<" and press "☑". The indication of "☑" will be turned OFF and the screen will return to the normal mode.



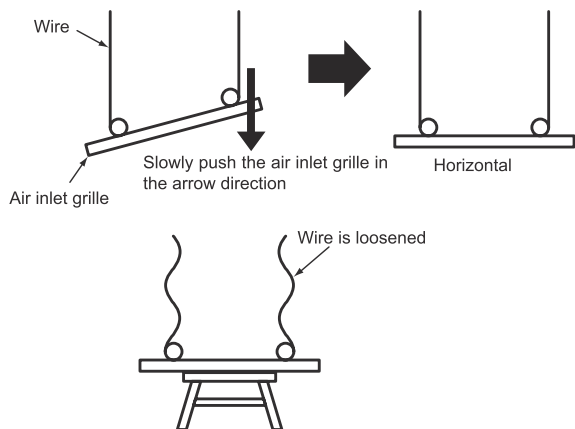
12.3 ELEVATING GRILLE

This function is available only when the elevating grille is equipped with the air panel.

CAUTION

Caution of Setting Elevating Grille into Air Panel After Cleaning.

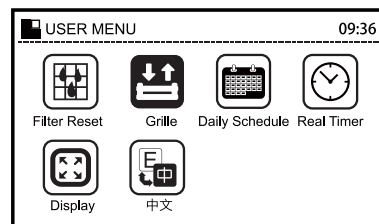
When the air inlet grille is set inside the air panel, ensure that the air inlet grille is horizontal and the wire is suspended tightly without loosening. After the above is ensured, set the air inlet grille. If the air inlet grille is inclined and the wire is loosened, they may be caught in the pulley. It may lead to a failure of the pulley or pulley block. If the worst happens, it may cause personal injury due to falling the air panel.



NOTE

- This function is available only when the elevating grille is equipped with the indoor unit.
- Make sure that the unit operation is stopped before using the elevating grille.
- The elevating grille function is not available when the unit is operated.

- 1 Press "☐" (menu) and select "Grille" from the menu. Press "☑".

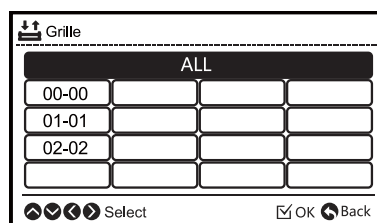


NOTE

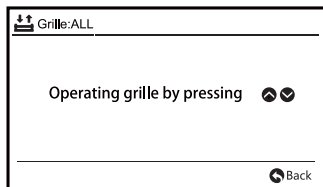
If the number of indoor unit connected with the remote control switch is 1 (one), (3) will be displayed after the procedure (1).

- 2 Select the indoor unit by pressing "^", "v", "<" or ">". Press "☑".

This function is for the air inlet grille automatically moves upward or downward from the air panel when cleaning the air filter and air inlet grille.

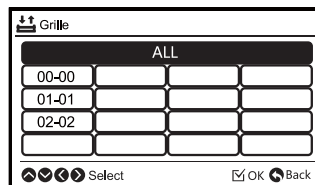


- Press "V". The elevating grille starts lowering.
 - Once "V" is pressed, the elevating grille lowers to the specified height.
 - If "V" is pressed once again, the elevating grille lowers by 50cm from the present height. (When "V" is pressed each time, the elevating grille lowers respectively by 50cm.)
 - To stop the elevating grille, press "Λ".



- When the cleaning is finished, press "Λ". The elevating grille starts rising. The grille will be set inside the air panel and stopped moving after 3 seconds. (If the air inlet grille is inclined at this time, press "Λ" again. An inclination may be corrected).

- Press "↶" (return). The screen will return to (2). If necessary, set the elevating grille for other indoor units. To finish the setting, press "↶" (return) again. The screen will return to the menu. If "↶" (return) is pressed once again, the screen will return to the normal mode.



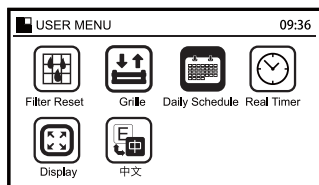
NOTE

If the number of indoor unit connected with the remote control switch is 1 (one), the screen will return to the normal mode after "↶" (return) is pressed.

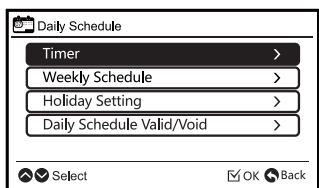
12.4 SIMPLE TIMER OPERATION

This function is used to start or stop the unit operation at the setting time.

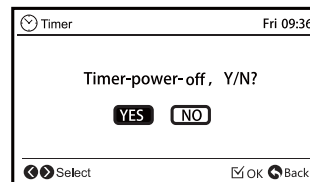
- Select "Daily Schedule" from the menu and press "↵".



- Press "Λ" or "V" to select "Timer"



- Select "Yes" by pressing "<" or ">" and press "↵". The setting will be confirmed and the screen will return to the normal mode.

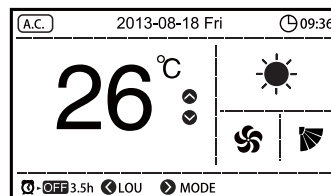
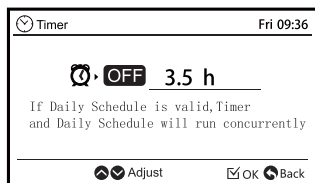


NOTE

In the case of the following condition, the simple timer operation is NOT available:

- When the prohibiting operation by remote control switch is set from the central controller.

- Press "Λ" or "V" to adjust the timer. Press "↵" to finish the simple timer setting. The confirmation screen will be displayed.



12.5 SCHEDULED OPERATION

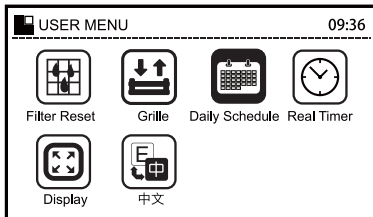
12.5.1 Schedule setting

This function is used to start or stop the unit operation at the setting time.

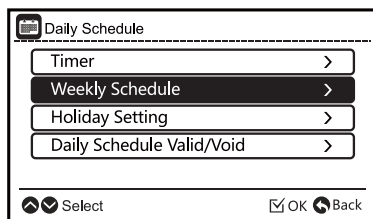
Temperature can be also set when the unit is operated.

Five different schedule timers (max.) can be set for each day of the week.

- 1 Select "Daily Schedule" from the menu and press "↵".



- 2 Select "Weekly Schedule" by pressing "▲" or "▼" and press "↵".



i NOTE

If the present time has not been set yet, automatically "Set Date/Time" will be displayed. Refer to Adjusting Date/Time.

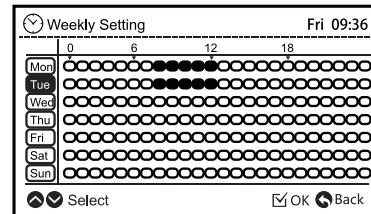
- 3 Select the day of the week (from Monday to Sunday) by pressing "▲" or "▼". Press "↵".

- "●" (run) and "○" (stop) will be displayed on LCD.
- To copy the setting contents of the previous day, press "<" and "↵" simultaneously.

Example:

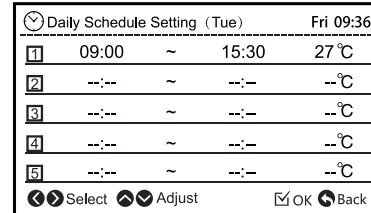
The setting contents of Monday is copied in Tuesday.

- a. Select "Tue".
- b. Press "<" and "↵" simultaneously.
- c. The setting contents of Monday are copied in Tuesday.



- 4 Select the schedule No (from 1 to 5) by pressing "▲" or "▼". Select "ON Time", "OFF Time" or "Setting Temperature" by pressing "<" or ">". Set the ON/OFF timer and temperature by pressing "▲" or "▼".

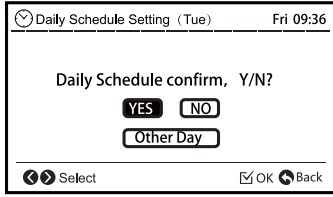
- Press or keep pressing "▲" or "▼" to adjust numbers.
- Five different schedule timers (max) can be set for each day of the week.






The figure shows that following timers are set for Tuesday

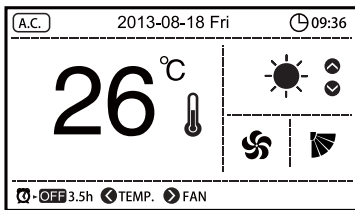
- ON Timer: 09:00
- OFF Timer: 15:30
- Setting Temperature: 27°C

5 Press “”. The confirmation screen will be displayed.




6 Select “Yes” by pressing “<” or “>” and press “”. The setting will be confirmed and the screen will return to the normal mode. To set other days of the week, select “Other day” and press “”.

“” will be indicated when the schedule operation is activated.



i NOTE

In the case of the following condition, the schedule operation is NOT available;

- When the prohibiting operation by remote control switch is set from the central controller.
- When “” is indicated on LCD, the schedule operation cannot perform. Set the date and time according to Adjusting Date/Time section.

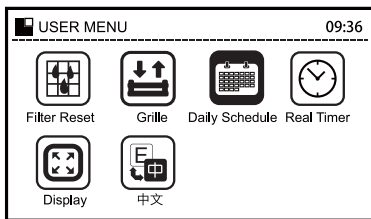
12.5.2 Holiday setting




This function is used to deactivate the schedule operation temporarily.

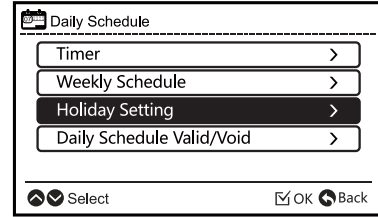
This function is used to deactivate the schedule operation just for one day. After that, the schedule operation will recover automatically.







This function is used to set irregular schedules such as national holidays.

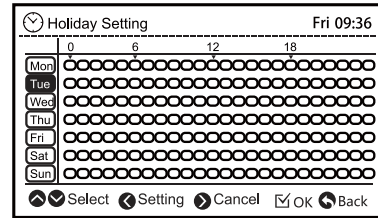
1 Select “Daily Schedule” from the menu and press “OK”. The schedule timer setting will be displayed.




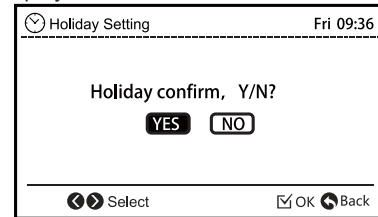
2 Select “Holiday Setting” by pressing “” or “” and press “”.




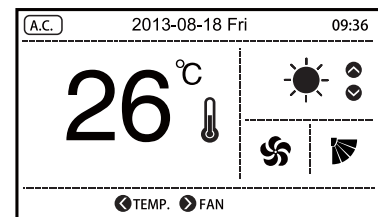
3 Select the day of the week to stop the operation by pressing “” or “”. Select “Setting” or “Cancel” by pressing “<” or “>”. “” and “” will be changed to “” and “” on LCD.




4 Press “” after the setting is completed. The confirmation screen will be displayed.



5 Select “Yes” by pressing “<” or “>” and press “”. The holiday setting will be confirmed and the screen will return to the normal mode.



i NOTE

“” will be turned off when the holiday setting is activated.

13.2 IN ABNORMAL CONDITION

13.2.1 Abnormality

The RUN indicator (Red) is flashing.

The indoor unit number, the alarm code and the model code, are displayed on LCD.

In case that the plural indoor units are connected, the above items for each indoor unit are displayed one by one.

13.2.2 Power failure

All the indications are OFF.

Once the unit is stopped by the power failure, the unit will not be started again although the power recovers. Perform the starting procedures again.

In case of instantaneous power failure within 2 seconds, the unit will be started again automatically.

13.2.3 Electric noise

There could be a case that all the indications are OFF and the unit is stopped. This is occurred by the activation of the micro computer for the unit protection from the electric noise.

Perform the starting procedures again.

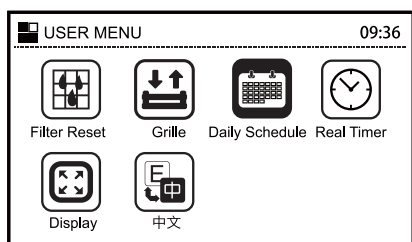
12.5.3 Schedule ON/OFF setting

This function is used to deactivate the schedule operation temporarily.

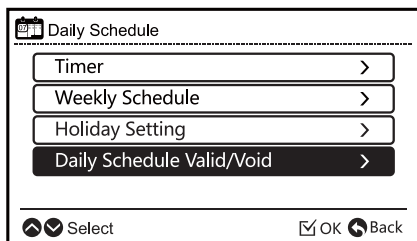
The schedule operation will not be carried out when "OFF" is set in this function.

This function is used to apply for long period of holidays.

- 1 Select "Daily Schedule" from the menu and press "☑".



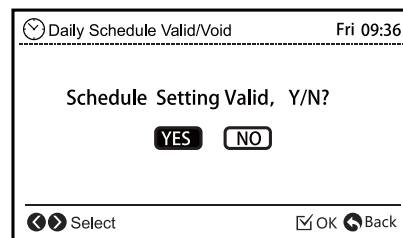
- 2 Select "Daily Schedule Valid/Void" by pressing "∧" or "∨" and press "☑". The confirmation screen will be displayed.



- 3 Select "Yes" by pressing "<" or ">" and press "☑". The schedule ON/OFF setting will be confirmed and the screen will return to the normal mode.

"⊕" will be turned on when the setting of schedule operation is valid.

"⊖" will be turned off when the setting of schedule operation is invalid.



NOTE

When the setting of schedule operation is invalid, the schedule operation will not be activated.

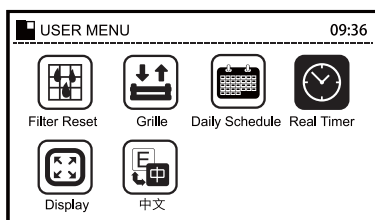
12.6 ADJUSTING DATE/TIME

This function is used to adjust the date and time.

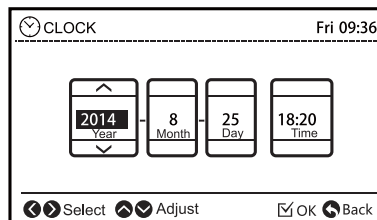
Periodic time setting is recommended. (Clock accuracy: difference within ±70 seconds by month).

As for this remote control switch, the clock can work up to 72 hours when power failure occurs. Reset the date and time if the remote control switch remains without power supply for longer than 72 hours or main power supply is OFF for long time.

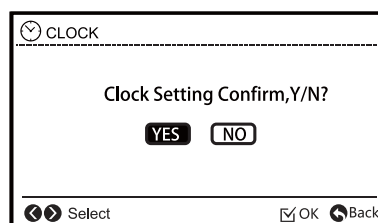
- 1 Select "Real Timer" from the menu and press "☑".



- 2 Press "<" or ">" and select "Year/Month/Day/Time".
- 3 Press "∧" or "∨" to change the setting. Press or keep pressing "∧" or "∨" to adjust numbers.



- 4 After the setting is completed, press "☑" and the confirmation screen will be displayed.
- 5 Select "Yes" by pressing "<" or ">" and press "☑". The setting will be confirmed and the screen will return to the normal mode.

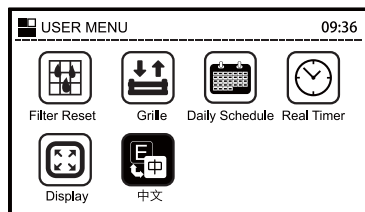




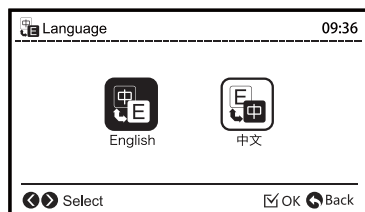
12.7 LANGUAGE SETTING

This function is used to change the displayed language.

- 1 Select “中文” by pressing “^V<>” and press “☑”. The language setting will be displayed.



- 2 Press “<” or “>” to select the language and press “☑”.



12.8 SCREEN DISPLAY SETTING

◆ Function

- Time Format:

To change the time form to 12 hour or 24 hour.

- Backlight Brightness

To adjust the brightness of backlight.

- Backlight Off

To change the time (5, 15 or 30 seconds) between ON and OFF of backlight.

- Contrast:

To adjust the degree of difference between light and dark parts of LCD.

- Run Lamp Brightness

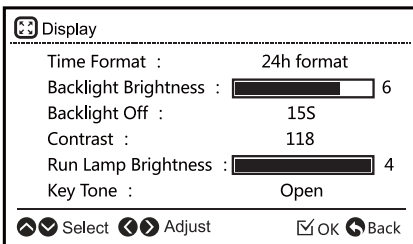
To adjust the brightness of run indicator.

- Key Tone:

To On/Off the voice of the key.

1 Select “Display ” from the menu and press “

2 Select the setting item by pressing “^” or “v”. The indication is changed in order of “Time Format”. “Backlight Brightness” “Backlight off”, “Contrast” . “Run Lamp Brightness” and “Key Tone”.



3 Press “<” or “>” to set the display.

- Time Format:

The time form is changed as follows; 12 Hour ↔ 24 Hour

- Backlight Brightness

Press “<” or “>” and the brightness of backlight is changed.

- Backlight Off

The display backlight is OFF after the specified time interval of inactivity (no input from touch screen). The backlight off time interval can be selected as follows;

5 Seconds ↔ 15 Seconds ↔ 30 Seconds

- Contrast:


Press “<” or “>” and the degree of difference between light and dark parts of LCD is changed.


- Run Lamp Brightness

Press “<” or “>” and the brightness of run indicator is changed.

- Key Tone:

Press “<” or “>” and the voice of the key is On/Off.

After the setting is completed, press “

4 Select “Yes” by pressing “<” or “>” and press “

66

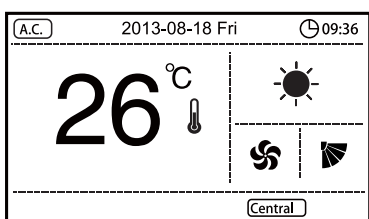
13 OTHER INDICATIONS

13.1 IN NORMAL CONDITION

13.1.1 Central control

“Central ” is turned ON.

In case that the prohibiting operation by remote control switch is set from the central controller, operation, temperature setting, fan speed and direction setting are not available from the remote control switch.



13.1.2 Thermo-controller

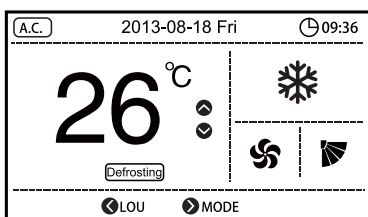
The fan speed is changed to “LOW” at the thermo-controller actuation. However, the indication is not changed. (Only in the heating operation mode).

13.1.3 Defrost

- Defrost Operation

“Defrosting” is turned ON during the defrosting.

The indoor fan is stopped though the indication is not changed. The louver is fixed at the horizontal position. However, the louver indication of LCD continues to activate.



- Operation Stoppage during Defrosting Operation

The RUN indicator (Green) is turned OFF when the operation is stopped during the defrosting.

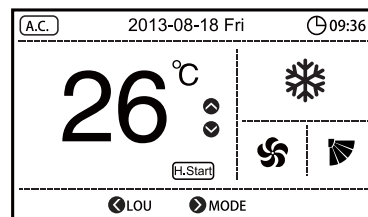
However, the operation continues with “ Defrosting ” indication, and the unit is stopped after the defrost operation is finished.

13.1.4 Operation control

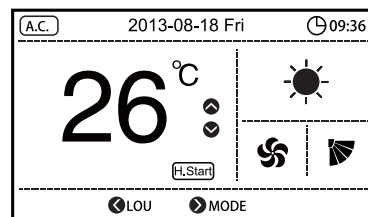
- Supplying Electrical Power

“ H.start ” is turned ON when the electrical power is turned ON.

In this case, the compressor is under preheating. The operation may not be available for max 4 hours. Do not turn off the outdoor unit electrical power during the high season for Cooling/Heating operation.



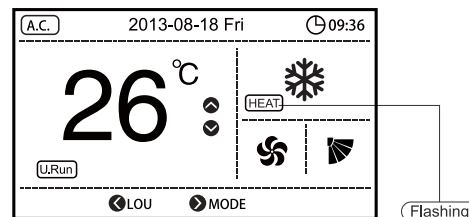
- During Hot Start (Heating Operation Only) “ H.start ” is turned ON.



- Different Operation Mode

The operation mode set by the remote control switch is different with the outdoor unit operation mode.

The indication of the actual operation mode flashes.



Indication when “COOL” operation is set by the remote control switch at the outdoor unit “HEAT” operation.

Introduction

- Please do not assemble at the following situation
 - Oil (including machine oil) foam spray, with much steam
 - Place of vulcanization like hot spring
 - Place with combustible gas
 - Area with higher saltness, like coastal region
 - Place of acidity and alkalescence
- Medical equipment with electromagnetic wave, please do not put the signal face of electromagnetic wave directly to the remote control to avoid any misoperation. To avoid the influence of electromagnetic wave, please put the machinery, which could produce the electromagnetic wave, out of 3m.

Marks

Warning:
Misoperation, might cause death and serious injury, grave consequences

Note: Compel matter, guide unspecified user

Reference: : Reference **Shortcut:** : Helping **Ban:** : Ban

Note: : Alarm other matters of ATTENTION items.

Safety instruction

- Please read this safety instruction before using the product.
- The ATTENTION items is marked as **Warning**
- **Warning** are the serious results that might cause by misoperation. Do follow it!
- Please keep this OPERATION INSTRUCTION, in case of needy.

Installation . Electric execution

Warning

- Do entrust dealer or professional installation personnel who has execution licence. If not, might cause leakage, electric shock, fire or damage of machine dropping.
- Licence of electric execution is needed. Do entrust dealer who has execution licence. If install wrong, might cause electric shock and fire.

Maintainance & move

Warning

- When maintain the machine, please contact with dealer or appointed service center. Improper maintainance and wrong assembling, might cause electric shock, fire and other damage.
- Please contact dealer or appointed service center, when maintain or move remote control. Improper maintainance and wrong assembling might cause electric shock, fire and other damage.

Revolver

Warning

- Do not operating remote control using moist hand. Might cause electric shock.
- Safety instruction: restart constantly or the revolver button is unusual, do shut main power supply at once.
- When abnormal happened, like scorched smell, do stop all running and shut down main power supply. Otherwise it might cause electric shock, fire and other damage. Please contact with dealer or appointed service center.

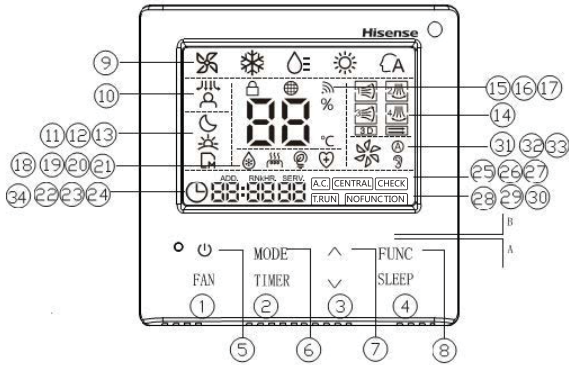
Other warning and matters

Warning

- Do not let water inside, when maintaining. Electric parts with water might cause electric shock.
- Do not reform wiring by yourself. It might cause major accident.
- Do not shut down power supply in 3 mins, after operating buttons of remote control. It might cause misoperation.

Part Name

(To proceed with below instructions, all the displays are listed. It is different from actual running.)



A Operation Button Section

- ① Fan Speed Button
- ② Timer Button
- ③ Temperature Button "-"
- ④ Sleep Button
- ⑤ ON & OFF Button
- ⑥ Mode Button
- ⑦ Temperature Button "+"
- ⑧ Function Button

B LCD Display Section

- ⑨ "FAN", "COOL", "DRY", "HEAT", "AUTO" Run Modes
- ⑩ Human Induction Display
- ⑪ Comfort Sleep Icon Display
- ⑫ Comfort Wake Icon Display
- ⑬ Memory Icon Display
- ⑭ Air Swing Icon Display
- ⑮ Lock Icon Display
- ⑯ Filter Icon Display
- ⑰ Signal Icon Display
- ⑱ Defrost Icon Display
- ⑲ Auxiliary Power Icon Display
- ⑳ Energy Saving Icon Display
- ㉑ Health Icon Display
- ㉒ System Address Code Display
- ㉓ On-site Setting System Address Display
- ㉔ Service Code Display
- ㉕ Air-Conditioning Icon Display
- ㉖ Trial Run Icon Display
- ㉗ Spot Check Icon Display
- ㉘ Hot Start Icon Display
- ㉙ Centralized Control Icon Display
- ㉚ NO FUNCTION Display
- ㉛ Fan Speed Icon Display
- ㉜ Fan Speed Auto Icon Display
- ㉝ Mute Icon Display
- ㉞ System Timer ON/ OFF Status

Elementary operation

Cooling Heating Dry (Auto) Fan

Only "shop/office heat pump air conditioner" and "Heat pump have VRF for buildings function of heating; "shop/ office cooling only unit" and "VRFcooling only unit for buildings" are not.

Ready	Plug in before operating,for protecting compressor. Do not interrupt, before operating.	
--------------	---	--

Mode selection	Press [MODE] button select operating mode	
-----------------------	---	--

Each press of mode button, operating mode will be changing in sequence:

- Auto: operating mode, need further setting. More detail need to consult dealer.
- Fan& Heating: operating mode, only for Double heat source indoor unit.
- For Total Heat Exchanger,only one mode (FAN) can be displayed.

Temperature

1	Each press of [▲] button,temperature rises by 1degree	
---	---	--

2	Each press of [▼] button,temperature falls by 1degree	
---	---	--

Humidity

- When connecting the AC auto dehumidifier

1	Press button [▲] and after each press, the humidity will increase 1% (For indoor units only with auto dry mode, it is effective under auto dry mode).	
---	---	--

2	Press button [▼] and after each press, the humidity will decrease 1%.	
---	---	--

- When connecting the DC ducted type air conditioner, wired remote controller can display three different dry modes: standard dry (☀), comfortable dry (☁) and strong dry (☁). (For details, please consult dealers).

1	<p>① Display set temperature, adjusted with buttons [▲] or [▼].</p> <p>② Display target humidity, set by function selection.</p>	
---	--	--

Fan speed

1	<p>Press [FAN] button, each press of FAN button, fan speed will be changing in sequence:</p> <p>☀ → ☁ → ☁ → ☁ → ☁ → ☁</p> <p>☁ fan speed can only be exchanged when connect with the unit having 6 level fan speed.</p>	
---	---	--

- In Dry mode, the lower fan speed can only be set, and the fan speed could not be exchanged unless connecting with a fast dehumidification unit.

Air swing setting

- Air swing setting when 3D air deflector is connected.

1	<p>Press button [ON]. After running is started, press button [FUNC] and the normal air deflector will flash.</p>	
2	<p>Press button [▲] or [▼], normal air deflector, 3D icon (3D), and super remote icon (SR) will flash in turns.</p>	
3	<p>After air swing of the normal air deflector is selected, press button [FUNC] and the horizontal deflector icon will flash.</p> <p>Press button [▲]</p> <p>Press button [▼]</p>	

<p>When the horizontal deflector flashes, press button [FUNC] and the vertical deflector icon will flash.</p> <p>3 Press button [▲]</p> <p>Press button [▼]</p>	
---	--

<p>After 3D air swing is selected, press button [FUNC] and all three deflector icons will swing.</p> <p>4</p>	
---	--

<p>After super remote air swing is selected, press button [FUNC] to exit from the air swing setting interface.</p> <p>5</p>	
---	--

- Air swing setting when one way indoor unit is connected.

<p>1 Press button [ON]. After running is started, press button [FUNC] and the normal air deflector will flash.</p>	
<p>2 Press button [▲] or [▼], normal air deflector, 3D icon (3D), will flash in turns.</p>	
<p>After air swing of the normal air deflector is selected, press button [FUNC] and the horizontal deflector icon will flash.</p> <p>3 Press button [▲]</p> <p>Press button [▼]</p>	
<p>When the horizontal deflector flashes, press button [FUNC] and the vertical deflector icon will flash.</p> <p>3 Press button [▲]</p> <p>Press button [▼]</p>	

After 3D air swing is selected, press button [FUNC] and all two deflector icons will swing.

- Air swing setting of connecting k3 four directions and k3 two directions.

1 Press button [ON]. After running is started, press button [FUNC] after the set deflector is selected, the corresponding air swing display area will flash.

k3 four directions [FUNC] → [k3 four directions icon] → [FUNC] → [k3 two directions icon] → [FUNC]

k3 two directions [FUNC] → [k3 two directions icon] → [FUNC]

2 Press button [^]

Press button [v]

3 Press button [^]

Press button [v]

Air swing setting

- Air swing setting of connecting k0 four directions .

1 Press button [ON]. After running is started, press button [FUNC] and the air deflector will flash.

2 Press button [^]

Press button [v]

- Different indoor unit types have different air directions. For detail please refer to the operation instructions of the corresponding indoor unit.
- When the deflector swings, the LCD will display the position of the deflector vane, but it may not be completely consistent with the actual position of the air conditioner's deflector vane. When the air direction is fixed, please see the angle of air direction based on the direction displayed on the LCD.
- After the button is pressed, sometimes the deflector vane may not stop immediately.
- After the setting is done, press button [FUNC] to exit.

Sleep

Note

- For indoor units without sleep function, the sleep mode will not be displayed. In case of limited temperature and fan speed, the sleep function is invalid.

1 Under run mode, short press button [SLEEP] to switch over to the sleep setting status and the icon ☾ will flash.

2 Then short press button [SLEEP] to adjust the sleep mode. (memory)

No used → ☾ → ☼ → ☀

(default) (comfort) (comfort) (wake)

(sleep) (sleep)

- Sleep mode can only be set when the unit is on.
- When the run mode is switched from ON to OFF, the sleep setting will be canceled.
- When the run mode is switched, the sleep setting will be canceled.
- When the timer button is pressed to cancel timing, the sleep setting will also be canceled.

Mute

Note

- For indoor units without mute function, the mute mode will not be displayed. In case of limited fan speed, the mute function is invalid.

1 Under run mode, short press button [FUNC] to switch over to the mute setting status and the icon 🚫 will flash.


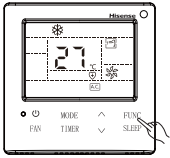
2 Then short press [^] or [v] to adjust the mute mode to valid or invalid status.

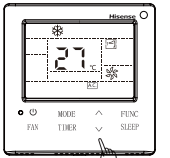
- Under mute mode, the indoor unit will automatically control and set the fan speed. When the mute mode is set by the wired remote controller, the current fan speed will be displayed and cannot be adjusted.
- When the run mode is switched from ON to OFF, the mute setting will be canceled.
- When the run mode is switched, the mute setting will be canceled.

Health

Note

- For indoor units without health function, the health mode will not be displayed.


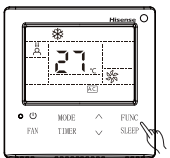
1	Under run mode, short press button 『FUNC』 to switch over to the health setting status and the icon  will flash.	
---	--	---






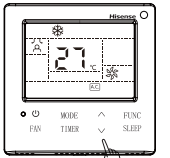
2	Then short press 『^』 or 『v』 to adjust the health mode to valid or invalid status.	
---	---	---

Human Induction

Note

- For indoor units without human induction function, the human induction mode will not be displayed.


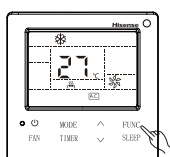
1	Under run mode, short press button 『FUNC』 to switch over to the human induction setting status and the icon  will flash.	
---	---	--

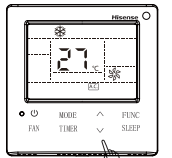
2	<p>Not used</p> <p>↑↓ 『^』</p> <p> (Air blow man)</p> <p>↑↓  (Air avoids man)</p> <p>↑↓  (Vacant run)</p> <p>↑↓  (Air blow man + vacant run)</p> <p>↑↓  (Air avoids man + vacant run)</p>	
---	---	---

Auxiliary Power

Note

- For indoor units without auxiliary power function, the auxiliary power mode will not be displayed.

1	Under run mode, short press button 『FUNC』 to switch over to the auxiliary power setting status and the icon  will flash.	
---	---	---


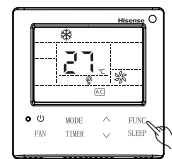
2	Then short press 『^』 or 『v』 to adjust the auxiliary power mode to valid or invalid status.	
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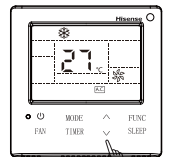
- The auxiliary power function is only valid under heating mode and cannot be selected under other modes.
- When the run mode is switched from ON to OFF, the auxiliary power setting will be canceled.
- When the run mode is switched, the auxiliary power setting will be canceled.

Energy Saving

Note

- For indoor units without energy saving function, the energy saving mode will not be displayed. In case of limited fan speed and temperature, the energy saving function is invalid.

1	Under run mode, short press button 『FUNC』 to switch over to the energy saving setting status and the icon  will flash.	
---	---	---


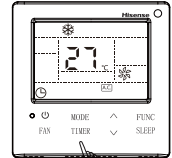
2	Then short press 『^』 or 『v』 to adjust the energy saving mode to valid or invalid status.	
---	--	--

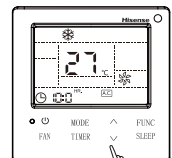
- When the energy saving mode is set by the wired remote controller, set fan speed and temperature cannot be adjusted.
- When the run mode is switched from ON to OFF, the energy saving setting will be canceled.
- When the run mode is switched, the energy saving setting will be canceled.

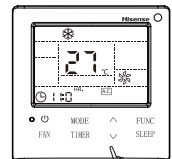
Timer setting

Function and operation

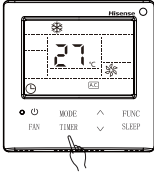
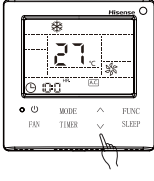
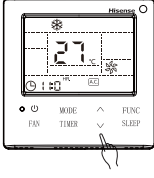
- Starting up timer.....after setting time, starting
- Shutting down timer..... after setting time, shutting down
- Starting up and shutdown timer could not be used combinedly

TIMER ON	Under halted state and without starting up timer setting, press TIMER button, switch to the timer setting  and timer 7 code display flickering.	
----------	--	---

TIMER ON	Then short press 『^』 or 『v』 to confirm the validity of TIMER ON. After the TIMER ON is confirmed valid, short press button 『TIMER』 to start the time setting and then the set time will flash.	
----------	--	---

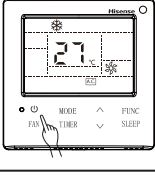

TIMER ON	Press 『^』 to increase 0.5 or 1 hour of the set time. Press 『v』 to reduce 0.5 or 1 hour of the set time.	
----------	--	---

Timer setting

TIMER OFF	Under run state and without starting up timer setting, press TIMER button, switch to the timer setting and timer 7 code display flickering.	
TIMER OFF	Then short press [^] or [v] to confirm the validity of TIMER ON. After the TIMER ON is confirmed valid, short press button [TIMER] to start the time setting and then the set time will flash.	
TIMER OFF	Press [^] to increase 0.5 or 1 hour of the set time. Press [v] to reduce 0.5 or 1 hour of the set time.	

- The timer range is 0.5~72 hours.
- When the timer range is 0~10 hours, the adjusting unit of time is 0.5 hour. When the timer range is 10~72 hours, the adjusting unit of time is 1 hour.


Operating method

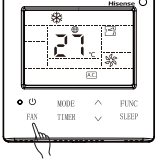
Operating	Press button [ON]. Operating light goes on start work.re-press button Operating light goes out. Machine shut down.	
Quit	Re-press button [ON]. Operating light goes out. Machine shut down.	

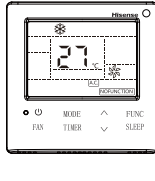
- After heating stop,indoor units will be blowing for 2 mins.

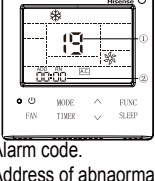
Other LCD display

Status display

Centralized control	<ul style="list-style-type: none"> • CENTRAL display When remote control setting is forbidden by centralized controller, the remote control could not be operated to change temperature, air swing and fan speed. 	
---------------------	--	---

Filter screen	<ul style="list-style-type: none"> • Filter display Display the site of timing up of cleaning filter screen. Press mode button at less 3 secs., filter screen display disappear. 	
---------------	---	---

No function	<ul style="list-style-type: none"> • No function display the indoor unit has not this function or structure. 	
-------------	---	--

Alarm	<ul style="list-style-type: none"> • Alarm display flickering when any abnormality happening. 	 <p>① Alarm code. ② Address of abnormal indoor unit.</p>
-------	--	---

Unusual display

Abnormal	<ul style="list-style-type: none"> • Operating light flickering • LCD display the indoor address, system address and alarm code.
Power cut	<ul style="list-style-type: none"> • All display disappear • when operating quit by power cut, start the controller manually after power on • Keep running,when the time of power cut is less than 2 secs.
Disturb	<ul style="list-style-type: none"> • All display disappear, operating might quit. This is caused by disturbances. Please reset the running operation.

Operation & Installation Manual for

Model: HYE-Q01


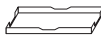
⚠ CAUTION

Do not turn ON the power source, unless the preparation for test running is completed.

- Read this manual carefully before installation work for correct performance.
- Read this manual together with the “Installation & Maintenance Manual” for the indoor unit.
- is the blank box for checking. Mark the blank box for the item after checking.

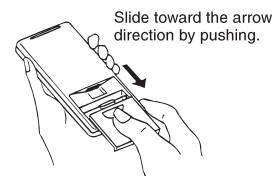
1. Before Installation and Operation

- This packing contains the following parts.
Check the contents and the number of the parts.

Name	Q'ty	Remark
Wireless Remote Control Switch (Controller) 	1	For Operation Control
Holding Bracket 	1	For Controller
Screw	2	For Fixing "Holding Bracket" onto Wall

2. Setting Batteries

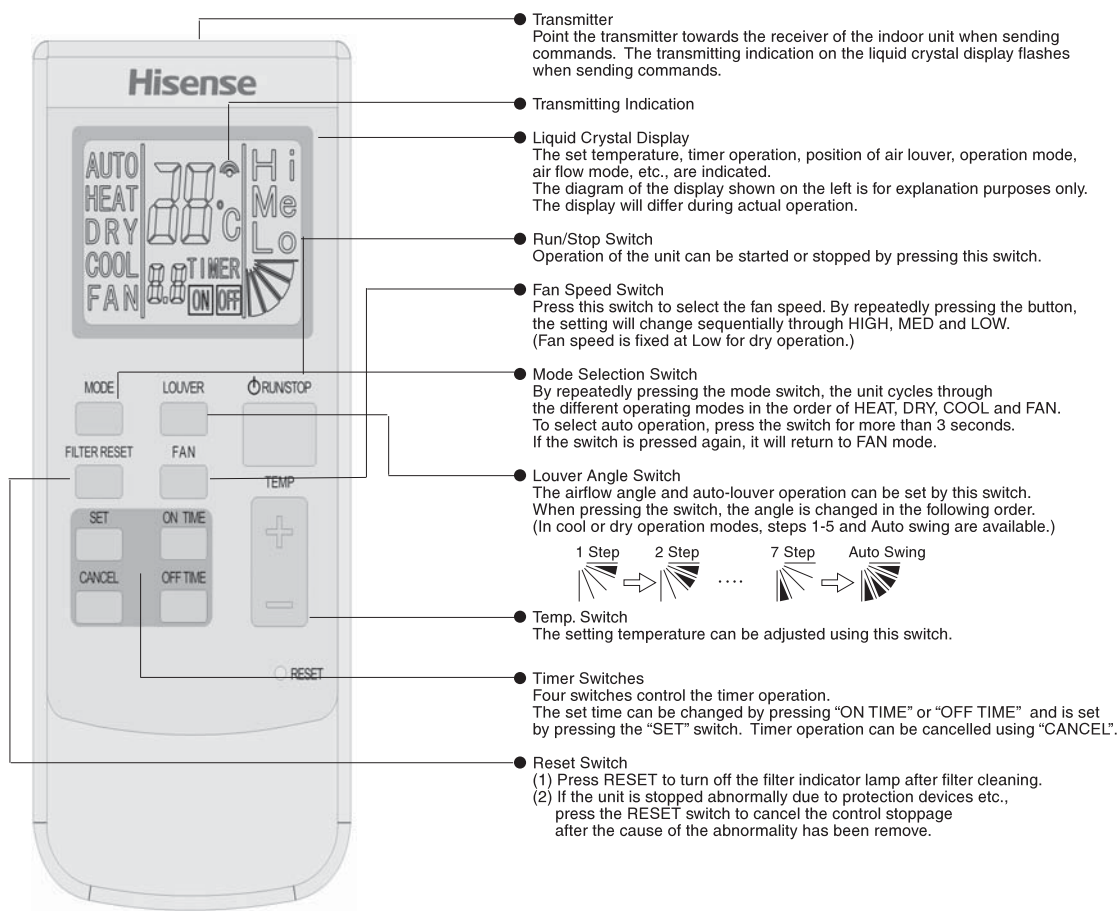
- Set the batteries (AAA/1.5V×2) for the controller as follows.
- (1) Remove the battery cover by sliding toward the arrow direction by pushing the part of the cover as shown in the figure below.
 - (2) Set the batteries.
(Insert the batteries according to the marks of + and - on the case.)




3. Name of Parts

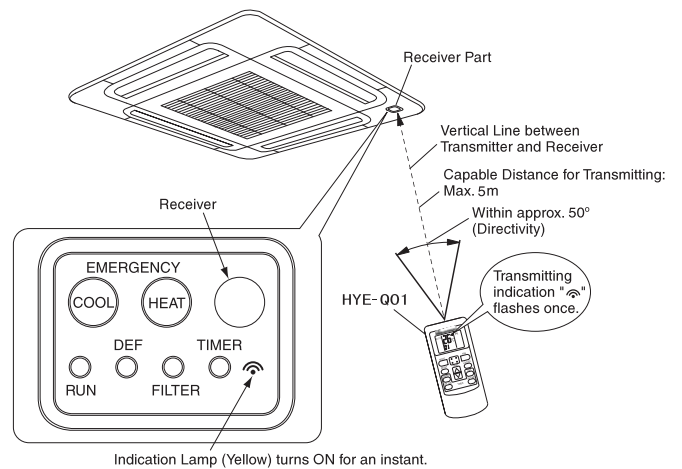
● Controller:

This controller is used to send commands about operation mode, timer setting, etc. to the indoor unit. Face the transmitter of the controller toward the receiver of the indoor unit and press the switch of required operation so that commands (by infrared rays) are sent to the indoor unit. The distance for transmitting is approximately 6 meters as a maximum. (The capable distance for transmitting will get shorter in case that the transmitting angle is not vertical to the receiver or an electronic type light is used in the room, etc.)



4. Sending Commands from Controller

- ❑ The operation commands are sent by pressing the required operation switch by facing the transmitter of the controller toward the receiver of the indoor unit.
- (1) When the commands are sent, the “” indication on the liquid crystal display of the controller flashes once.
- (2) The indication lamp (yellow) on the receiver part of the indoor unit turns ON for an instant when the indoor unit receives the commands.



ATTENTION:

In case that the indication lamp (yellow) does not turn ON although the commands are sent, the commands are not received by the indoor unit. In such a case, send the commands again.

ATTENTION:

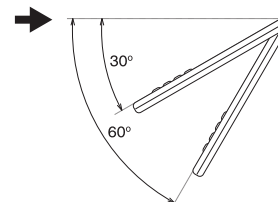
The transmitter of the controller has the vertical directivity to the receiver, and the permissible angle for transmitting is within 50°. However, the capable distance for transmitting gets half when the transmitting angle is 50°, and also get shorter in case that an electronic type light is used in the room.

NOTE:

The above figure shows the case of a 4-way cassette type indoor unit. The figures for other models are different partially.

LCD (Liquid Crystal Display) Indication

When viewed from certain angles the LCD can be difficult to read. The viewing angle ranges from an optimal of 60° down to 30°, as shown in the diagram on the right.



5. Operation

- ❑ When operating the controller, face the transmitter toward the receiver of the indoor unit and press the switch for the required operation as described in the item “4. Sending Commands from Controller”.

ATTENTION:

In case that two indoor units are installed side by side, the commands from the controller may be received by both indoor units. The function to identify each indoor unit not applicable.

6. Installing onto the Wall or Pillar

ATTENTION:


When the commands are sent by the controller hooked onto the wall, the receiver of the indoor unit may not receive the commands.

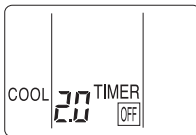
- ❑ 1) Select the suitable place for handling and install the controller with the customer's acceptance. Do not install the controller at the places as shown in the below.
 - * where children can touch
 - * where the air from the air conditioner is directly discharged
 - * where there is oil vapor and the oil is dispersed
 - * where the humidity is high
- ❑ 2) Pay attention to the following points in case that the controller is installed in a place where there is medical equipment radiating electromagnetic waves.
 - (1) Install the controller in a place where electromagnetic waves are not radiated directly toward the electrical box of the indoor unit and the controller.
 - (2) Keep a distance more than 3 meters away from the equipment radiating electromagnetic waves, the receiver of the radio, etc. for prevention of the noise through the air.
 - (3) In case that there is electric noise at the power source for the indoor unit, the treatment such as providing a noise filter is required.
- ❑ 3) Do not install the controller in a place where generation, flowing, staying or leaking of flammable gas is detected.
- ❑ 4) Install the controller in a place where there is a distance more than 30cm from the power supply cable when installing the controller onto the wall.
- ❑ 5) Install the holding bracket (accessory) onto the wall by using screw (accessory) and attach the controller to the holding bracket.

7. Test Running by Controller

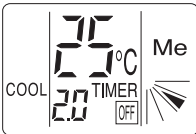
ATTENTION:

Test running by the controller can not be performed in case that the wired remote control switch is used together; in case that multiple units are operated simultaneously. In such cases, perform the test running by the wired remote control switch.

- ❑ 1) Perform the test run after the installation work is completed.
 - (1) Set the batteries for the controller.
 - (2) Turn ON the power supply for the indoor and outdoor units.
 - (3) “” lamp (yellow) on the receiver of the indoor unit flashes (0.25 seconds ON ↔ 0.25 seconds OFF), and then turns OFF. While the lamp is flashing, the unit will not operate because it is initialising.
- ❑ 2) Set the test run mode by pressing “SET” and “OFF TIME” switch simultaneously for more than 3 seconds. The LCD should be as shown in the figure on the right.



Test Run Mode is under suspension.
- ❑ 3) Set the operation mode by pressing the “MODE” switch.



Test Run Mode is under operating.

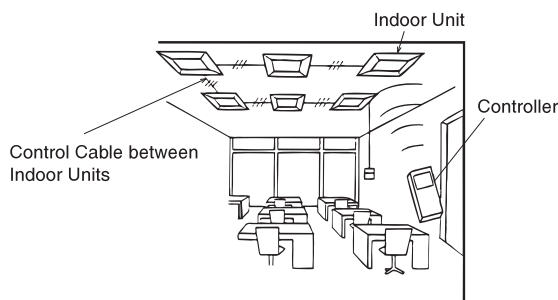
- ❑ 4) Operate the Test Run by pointing the transmitter towards the receiver of the indoor unit and press the “⏻ RUN/STOP” switch. When the commands are received by the indoor unit, the “📶” lamp (yellow) of the receiver will come on briefly.
Check the commands are received well and the mode selected 3) is set correctly.
In the test run mode, the red lamp (RUN) of the receiver is turned ON and the green lamp (TIMER) flashes (0.5 seconds ON ↔ 0.5 seconds OFF) (*2).
And then set off timer for 2 hours.

NOTES:

1. In the case that the “📶” lamp (yellow) does not turn ON, the controls may not have reached the receiver.
Send the commands again.
 2. (*2) In the case of AVS model, “TIMER” lamp is turned OFF.
- ❑ 5) Adjust the angle of the air louver as follows.
The air louver has a mechanism for the auto-swing function.
Do not move the louver by hand forcefully.
 - (1) Select the FAN mode by pressing the “MODE” switch.
 - (2) Set the louver angle by pressing the “LOUVER” switch.
 - ❑ 6) Stop the Test Run
 - (1) Test Run is stopped after 2 hours automatically.
 - (2) Test Run is stopped by pressing “⏻ RUN/STOP” switch again.
After Test Run is finished, check that the red lamp (RUN) and the green lamp (TIMER) turn OFF.

8. Simultaneous Operation of Multiple Indoor Units

The multiple indoor units (Max. 16 units) can be started and stopped simultaneously by one controller.
Perform this operation only in case that multiple indoor units are installed in a room as shown in the figure below.



Control Example of Simultaneous Operation of Multiple Units

⚠ CAUTION

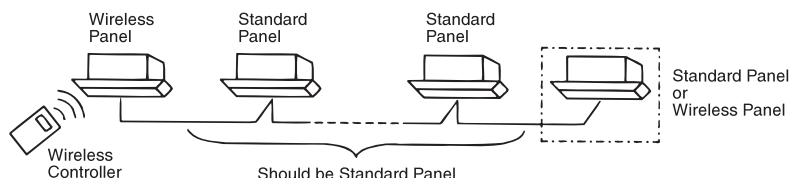
Do not perform this operation in case that the multiple indoor units are installed in different rooms separately. It may happen that some indoor units remain unchanged.

<Procedures>

ATTENTION:

Turn OFF all the power source before the following procedures such as wiring, setting the rotary switch, etc.

















- ❑ 1) Installation of Air Panel for Wireless Control
In case of simultaneous operation of plural (up to 16) units by the wireless remote control switch, apply the air panel for wireless control only to the unit to be operated, and apply the standard panels (for wired control) to other units. In case of applying plural air panels for wireless control, up to 2 air panels for wireless control can be used.



In case of applying two (2) air panels for wireless control, the setting of main and sub receiver part is required. Refer to the receiver kit installation manual.

- ❑ 2) Perform wiring between indoor units by referring to the receiver installation manual.
- ❑ 3) Fix the connecting control cable (do not use the white cord of the 3-core cable) between indoor units at certain points with bands not to run along the power supply cable inside of the indoor unit.
The same wiring is required outside of the indoor unit; keep a distance more than 30cm between the control cable and the power supply cable, or ground one end of a conduit tube after inserting the control cable in the metal conduit tube.

- ❑ 4) Set the rotary switches (RSW) on the printed circuit boards in the electrical box of each indoor unit as shown in the figure below.

	No. 0 Unit	No. 1 Unit	No. 2 Unit	No. 3 Unit	No. 4 Unit	No. 5 Unit	No. 6 Unit	No. 7 Unit
Rotary Switch Setting								
	No. 8 Unit	No. 9 Unit	No. 10 Unit	No. 11 Unit	No. 12 Unit	No. 13 Unit	No. 14 Unit	No. 15 Unit
Rotary Switch Setting								

NOTE:

The setting of the rotary switches (RSW) is not required for the models which have an auto-address function.

ATTENTION:

In case that the setting of the rotary switch is not performed correctly, an abnormal operation (irregular run/stop) may occur when test running or actual operation.

- ❑ 5) Check the Number of Indoor Units Connected
 Check the number of indoor units connected when test running.
 - * The 7-segment indication of the receiver part shows the number of the indoor units connected in case that the test running is performed by the controller. However, the number can not be indicated for some models. In such a case, check the number by the wired controller HYXE-A01H .

Operation & Installation Manual for Wireless Remote Control Switch (Unidirectional Type)

Model: HYE-L01



CAUTION

Do not turn ON the power source, unless the preparation for test running is completed.

- Read this manual carefully before installation work for correct performance.
- Read this manual together with the "Installation & Maintenance Manual" for the indoor unit.
- is the blank box for checking. Mark the blank box for the item after checking.

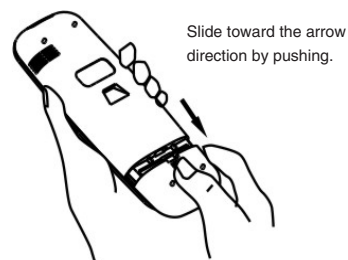
1. Before Installation and Operation

- This packing contains the following parts.
Check the contents and the number of the parts.

Name	Q'ty	Remark
Wireless Remote Control Switch (Controller) 	1	For Operation Control
Holding Bracket 	1	For Controller
Screw	2	For Fixing "Holding Bracket" onto Wall

2. Setting Batteries

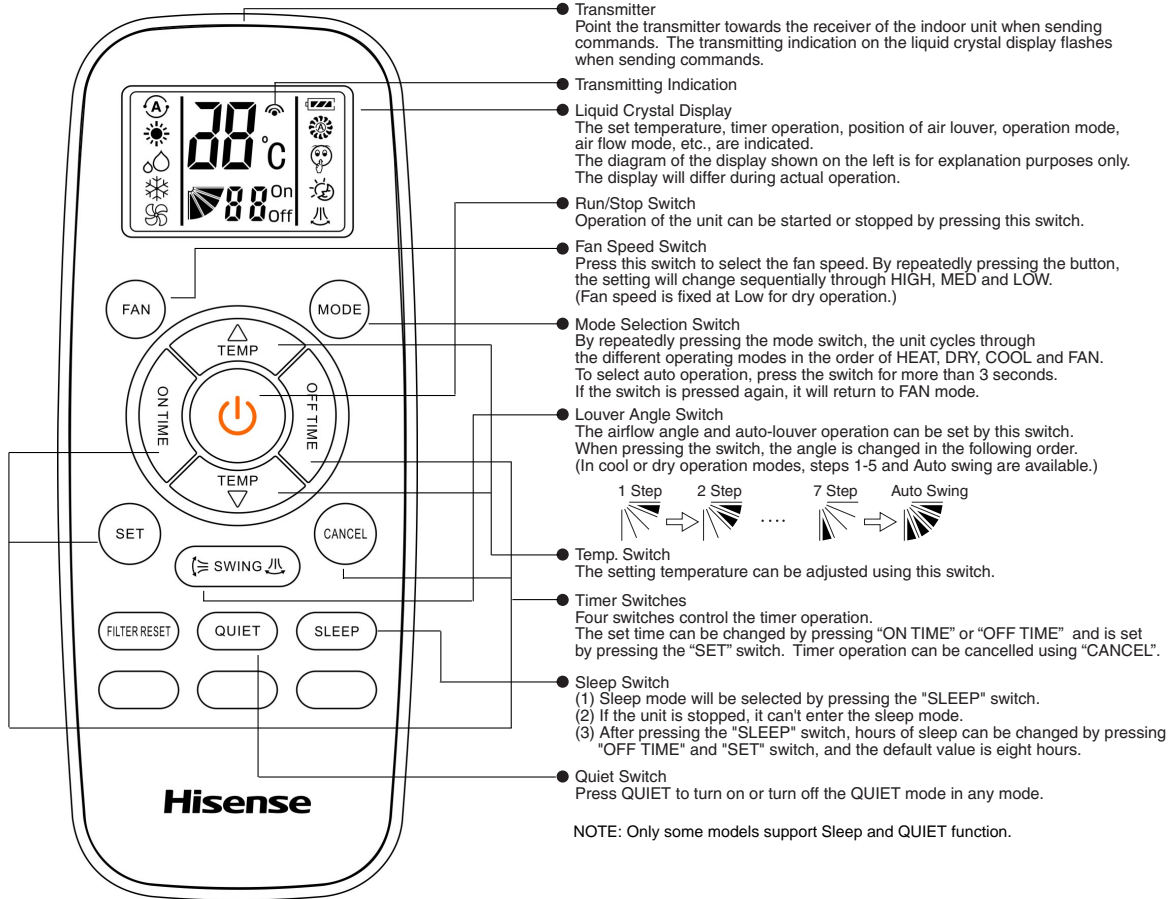
- Set the batteries (AAA/1.5V×2) for the controller as follows.
 - (1) Remove the battery cover by sliding toward the arrow direction by pushing the part of the cover as shown in the figure below.
 - (2) Set the batteries.
 (Insert the batteries according to the marks of + and - on the case.)



3. Name of Parts

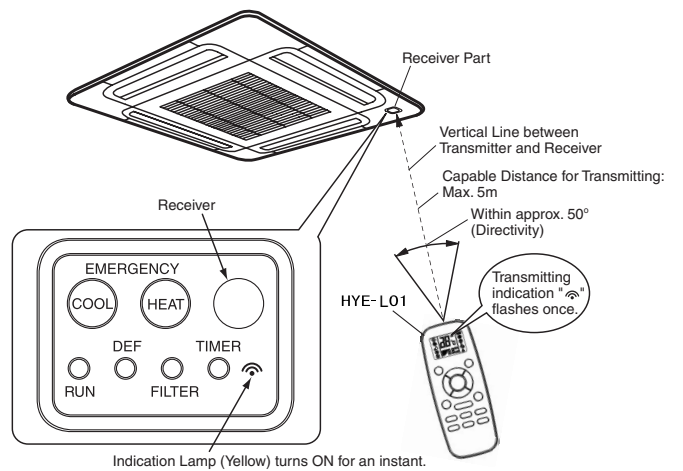
● Controller:

This controller is used to send commands about operation mode, timer setting, etc. to the indoor unit. Face the transmitter of the controller toward the receiver of the indoor unit and press the switch of required operation so that commands (by infrared rays) are sent to the indoor unit. The distance for transmitting is approximately 6 meters as a maximum. (The capable distance for transmitting will get shorter in case that the transmitting angle is not vertical to the receiver or an electronic type light is used in the room, etc.)



4. Sending Commands from Controller

- The operation commands are sent by pressing the required operation switch by facing the transmitter of the controller toward the receiver of the indoor unit.
 - (1) When the commands are sent, the “📶” indication on the liquid crystal display of the controller flashes once.
 - (2) The indication lamp (yellow) on the receiver part of the indoor unit turns ON for an instant when the indoor unit receives the commands.



ATTENTION:

In case that the indication lamp (yellow) does not turn ON although the commands are sent, the commands are not received by the indoor unit. In such a case, send the commands again.

ATTENTION:

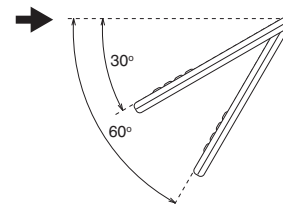
The transmitter of the controller has the vertical directivity to the receiver, and the permissible angle for transmitting is within 50°. However, the capable distance for transmitting gets half when the transmitting angle is 50°, and also get shorter in case that an electronic type light is used in the room.

NOTE:

The above figure shows the case of a 4-way cassette type indoor unit. The figures for other models are different partially.

LCD (Liquid Crystal Display) Indication

When viewed from certain angles the LCD can be difficult to read. The viewing angle ranges from an optimal of 60° down to 30°, as shown in the diagram on the right.



5. Operation

- When operating the controller, face the transmitter toward the receiver of the indoor unit and press the switch for the required operation as described in the item "4. Sending Commands from Controller".

ATTENTION:

In case that two indoor units are installed side by side, the commands from the controller may be received by both indoor units. The function to identify each indoor unit not applicable.

6. Installing onto the Wall or Pillar

ATTENTION:


When the commands are sent by the controller hooked onto the wall, the receiver of the indoor unit may not receive the commands.

- 1) Select the suitable place for handling and install the controller with the customer's acceptance. Do not install the controller at the places as shown in the below.
 - * where children can touch
 - * where the air from the air conditioner is directly discharged
 - * where there is oil vapor and the oil is dispersed
 - * where the humidity is high
- 2) Pay attention to the following points in case that the controller is installed in a place where there is medical equipment radiating electromagnetic waves.
 - (1) Install the controller in a place where electromagnetic waves are not radiated directly toward the electrical box of the indoor unit and the controller.
 - (2) Keep a distance more than 3 meters away from the equipment radiating electromagnetic waves, the receiver of the radio, etc. for prevention of the noise through the air.
 - (3) In case that there is electric noise at the power source for the indoor unit, the treatment such as providing a noise filter is required.
- 3) Do not install the controller in a place where generation, flowing, staying or leaking of flammable gas is detected.
- 4) Install the controller in a place where there is a distance more than 30cm from the power supply cable when installing the controller onto the wall.
- 5) Install the holding bracket (accessory) onto the wall by using screw (accessory) and attach the controller to the holding bracket.

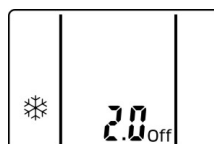
7. Test Running by Controller

ATTENTION:

Test running by the controller can not be performed in case that the wired remote control switch is used together; in case that multiple units are operated simultaneously. In such cases, perform the test running by the wired remote control switch.

- ❑ 1) Perform the test run after the installation work is completed.
 - (1) Set the batteries for the controller.
 - (2) Turn ON the power supply for the indoor and outdoor units.
 - (3) “” lamp (yellow) on the receiver of the indoor unit flashes (0.25 seconds ON ↔ 0.25 seconds OFF), and then turns OFF. While the lamp is flashing, the unit will not operate because it is initialising.

- ❑ 2) Set the test run mode by pressing “SET” and “OFF TIME” switch simultaneously for more than 3 seconds. The LCD should be as shown in the figure on the right.





Test Run Mode is under suspension.



- ❑ 3) Set the operation mode by pressing the “MODE” switch.



Test Run Mode is under operating.

- ❑ 4) Operate the Test Run by pointing the transmitter towards the receiver of the indoor unit and press the “ RUN/STOP” switch. When the commands are received by the indoor unit, the “” lamp (yellow) of the receiver will come on briefly. Check the commands are received well and the mode selected 3) is set correctly. In the test run mode, the red lamp (RUN) of the receiver is turned ON and the green lamp (TIMER) flashes (0.5 seconds ON ↔ 0.5 seconds OFF) (*2). And then set off timer for 2 hours.

NOTES:

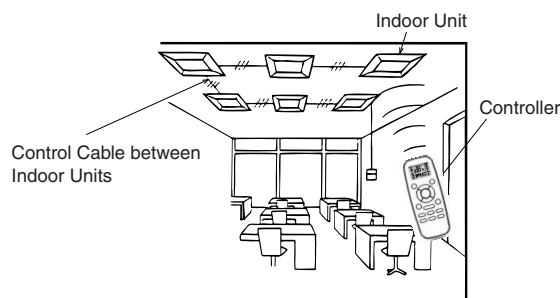
1. In the case that the “” lamp (yellow) does not turn ON, the controls may not have reached the receiver. Send the commands again.
 2. (*2) In the case of AVS model, “TIMER” lamp is turned OFF.
- ❑ 5) Adjust the angle of the air louver as follows. The air louver has a mechanism for the auto-swing function. Do not move the louver by hand forcefully.
 - (1) Select the FAN mode by pressing the “MODE” switch.
 - (2) Set the louver angle by pressing the “LOUVER” switch.
 - ❑ 6) Stop the Test Run
 - (1) Test Run is stopped after 2 hours automatically.
 - (2) Test Run is stopped by pressing “ RUN/STOP” switch again. After Test Run is finished, check that the red lamp (RUN) and the green lamp (TIMER) turn OFF.

8. Simultaneous Operation of Multiple Indoor Units

The multiple indoor units (Max. 16 units) can be started and stopped simultaneously by one controller. Perform this operation only in case that multiple indoor units are installed in a room as shown in the figure below.

CAUTION

Do not perform this operation in case that the multiple indoor units are installed in different rooms separately. It may happen that some indoor units remain unchanged.



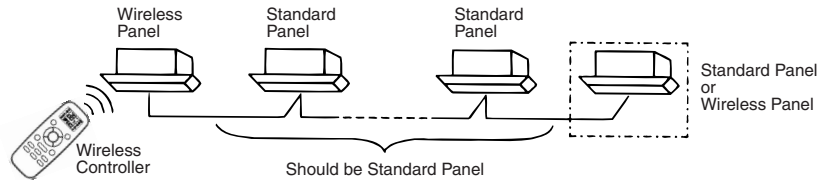
Control Example of Simultaneous Operation of Multiple Units

<Procedures>

ATTENTION:

Turn OFF all the power source before the following procedures such as wiring, setting the rotary switch, etc.

- 1) Installation of Air Panel for Wireless Control
 In case of simultaneous operation of plural (up to 16) units by the wireless remote control switch, apply the air panel for wireless control only to the unit to be operated, and apply the standard panels (for wired control) to other units. In case of applying plural air panels for wireless control, up to 2 air panels for wireless control can be used.



In case of applying two (2) air panels for wireless control, the setting of main and sub receiver part is required. Refer to the receiver kit installation manual.

- 2) Perform wiring between indoor units by referring to the receiver installation manual.
- 3) Fix the connecting control cable (do not use the white cord of the 3-core cable) between indoor units at certain points with bands not to run along the power supply cable inside of the indoor unit. The same wiring is required outside of the indoor unit; keep a distance more than 30cm between the control cable and the power supply cable, or ground one end of a conduit tube after inserting the control cable in the metal conduit tube.

- 4) Set the rotary switches (RSW) on the printed circuit boards in the electrical box of each indoor unit as shown in the figure below.

	No. 0 Unit	No. 1 Unit	No. 2 Unit	No. 3 Unit	No. 4 Unit	No. 5 Unit	No. 6 Unit	No. 7 Unit
Rotary Switch Setting								
	No. 8 Unit	No. 9 Unit	No. 10 Unit	No. 11 Unit	No. 12 Unit	No. 13 Unit	No. 14 Unit	No. 15 Unit
Rotary Switch Setting								

NOTE:

The setting of the rotary switches (RSW) is not required for the models which have an auto-address function.

ATTENTION:

In case that the setting of the rotary switch is not performed correctly, an abnormal operation (irregular run/stop) may occur when test running or actual operation.

- 5) Check the Number of Indoor Units Connected
 Check the number of indoor units connected when test running.
 - * The 7-segment indication of the receiver part shows the number of the indoor units connected in case that the test running is performed by the controller. However, the number can not be indicated for some models. In such a case, check the number by the wired controller HYPE-A01H.

Installation & Operation Manual for Wireless Remote Control

HYE-W01

To ensure correct use of this remote control, please read this manual carefully before use. This manual should be read along with the installation manual for air conditioner.

Discrepancy of display will occur when:

- 1) You press Sleep button while sleep function is unavailable in your indoor unit;
- 2) You press ECO button while power saving function is unavailable in your indoor unit;
- 3) You press Mute button while power mute function is unavailable in your indoor unit;
- 4) You press S.H. button while strong heating function is unavailable in your indoor unit;

Discrepancy of display may occur when:

- 1) You press 3D/S. button while 3D/strong airflow function is unavailable in your indoor unit;
- 2) You press Hor. button while horizontal airflow function is unavailable in your indoor unit;

Discrepancy of display may occur when lower temperature limit is set when this remote control is used along with wired remote control with receiver due to difference in indoor units. Check the box after checking related items as shown below.

1. Before Installation

- 1) The following parts are part of the wireless Remote Control, please check them.

Name	Quantity	Use
Wireless remote control	1	For control of operation
No.7 battery	2	For power supply to remote control
Remote control holder	1	For fixing of remote control
Screw (M4×16)	2	For fixing of remote control holder

2. Mounting of Battery

- 1) Mount two No.7 batteries into the battery container in remote control.

- (1) Pulling out the container cover.
- (2) Mount battery in.

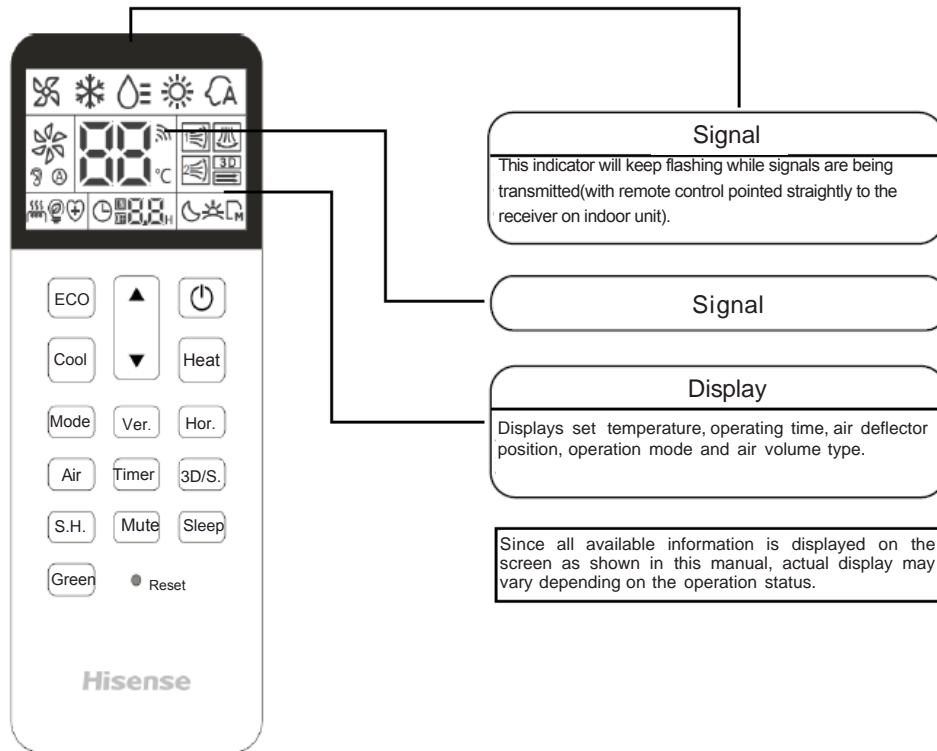
Pay attention to poles of batteries when mounting them!

3. Operation Instructions

- 1) Remove the batteries if the remote control is left idle for a long period.
- 2) Replace the batteries in pair.
- 3) After replacement, press Reset button before using the remote control.

4.Product Description

- Wireless remote control is a device transmitting instructions on operation mode and time setting to indoor unit. Point the remote control to signal receiver on indoor unit and press relevant button to send IR signals for communication.
- The maximum transmission distance is about 5 meters (the distance may be shorter when transmission path of IR signals is not perpendicular to the receiver or there is any electronic lighting device nearby).

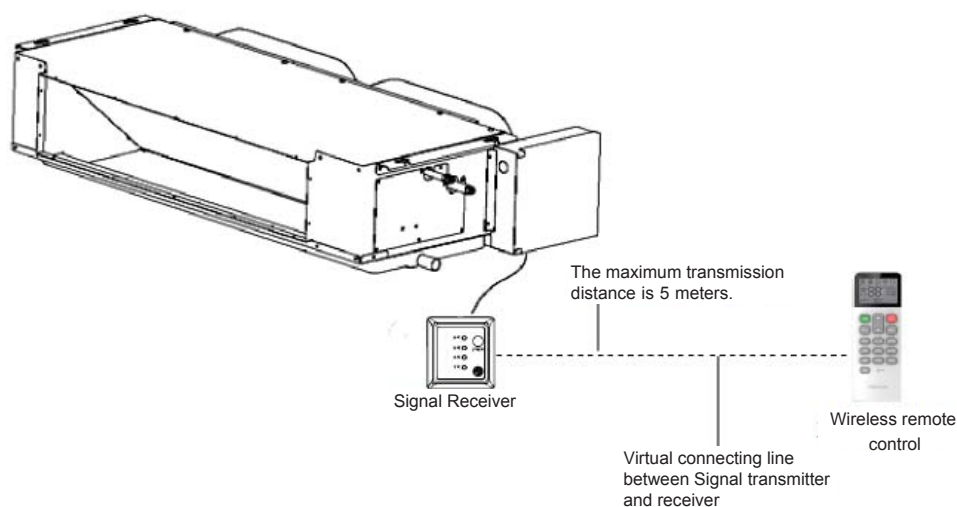


Button Description:

Start/Stop:	Press the button to start remote control, and press it again to shut down the remote control.	Mode	For toggling between operation modes
Cool	Used to set operation mode to cooling	Heat	Used to set operation mode to heating
Speed	For selection of airflow velocity	Temperature	Used for setting of indoor temperature
ECO	Press it to operate air conditioner in power-saving mode	3D/S.	Used to set 3D/strong airflow
Sleep	Press it to operate air conditioner in sleep mode	Mute	Press it to operate air conditioner in mute mode
S.H.	Press it to operate air conditioner in strong heating mode	Green	Press it to operate air conditioner in health mode
Airflow Direction	Hor Set horizontal airflow direction	Timer	After shutdown, press it to schedule start-up of the air conditioner
	Ver. Set vertical airflow direction		After start-up, press it to schedule shutdown of the air conditioner
Reset	• After cleaning of filter screen is finished, long press Mute to remove Filter Screen indication on indoor unit.	When any scheduled start-up/shut down has been set, press the button to cancel it	
	• When any protective device stops operating, long press Mute to cancel control after the failure has been removed.		

5. Signals Transmission

- * Point signal transmitter on remote control to the receiver on indoor unit.
- * Send signals as closely to indoor unit as possible, and make the remote control perpendicular to the plane where the receiver is located, or otherwise the signal transmission distance may be shorter.
- * When transmitting signals, the remote control should be in a sector-shape range of 120 degree in the plane where the receiver is located. When indoor unit is mounted at a low elevation, the reception angle becomes larger and transmission distance gets shorter, which varies depending on the building structure.
- * As battery is exhausted, signal transmission distance will get shorter. In such case, replace the batteries immediately.



- * Note: An indoor unit of ceiling conceal-mounted airduct type is shown above as example, other types may be different.

Tips

Note: An indoor unit of ceiling conceal-mounted airduct type is shown above as

- Signal receiver will beep when receiving signals. If the receiver fails to beep, the signals may not be received and then repeat the signal transmission.
- Beep may not be heard due to interference of noises nearby.

Note: In some special cases, such as centralized control status, the signals but not act is performed in indoor unit, and the buzzer gives a long beep.

6. Operations

- * To operate the remote control in accordance with the instructions under 5-Signals Transmission and press related function button.



- Do not place remote control at any location exposed to high heat, or otherwise it may fails to operate normally.
 - Direct sun
 - Oven
- Take much care while using the remote control, since it may be broken if dropping to ground or affected with damp.

Setting of Cooling/Heating/Dehumidifying/Air Supply

Operation and other Functions

- | | |
|-------------------|-----------|
| Cooling operation | Cool room |
|-------------------|-----------|
- | | |
|-------------------|-----------|
| Heating operation | Heat room |
|-------------------|-----------|
- | | |
|---------------------|---------------------------------|
| Automatic operating | Cool or heat room automatically |
|---------------------|---------------------------------|
- | | |
|-----------------|--------------------------------|
| Dehumidify room | Reduce humidity of air in room |
|-----------------|--------------------------------|
- | | |
|----------------------|-----------------------|
| Air-supply operation | Circulate air in room |
|----------------------|-----------------------|

For protection of compressor, the compressor shall be powered on 12 hours ahead of start-up. Do not switch off the power supply in operation duration.

Tips

After the remote control is powered on, the receiver indicator Filter Screen will keeps flashing at a cycle of 0.5 second and then go out. During the initialization when the indicator keeps flashing, no operation is available.

Power Button	<p>Point signal transmitter on remote control to the signal receiver and press Power button, the red operation indicator on the receiver will turn on.</p> <p style="text-align: center; font-size: 1.2em;">Start</p> <div style="border: 1px solid black; padding: 5px; margin-left: 20px; text-align: center;"> <p>Tips</p> <p>Each operation on power button shall be performed at an interval of at least 3 seconds, or otherwise this remote may fail to make response.</p> </div>
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Power Button	<p>Point signal transmitter on remote control to the signal receiver and press Power button, the red operation indicator on the receiver goes out.</p> <p style="text-align: center; font-size: 1.2em;">Stop</p>
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Mode Button	<p>Press Mode button each time to toggle the screen in the following sequence</p> <div style="text-align: center; margin-bottom: 10px;"> </div> <p>(※where indoor unit is not a DC dehumidifier)</p> <div style="text-align: center; margin-bottom: 10px;"> </div> <p>(※where indoor unit is a DC dehumidifier, it shall be used with HYRC-V02H/ photo diode) (Long press Mode + Speed buttons for 3 or more seconds to toggle between two display modes)</p>
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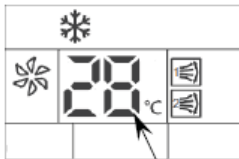
Cooling Button	Press Cooling button to activate cooling mode on the screen
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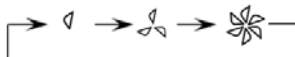
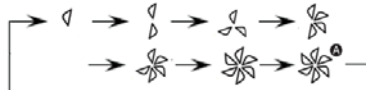
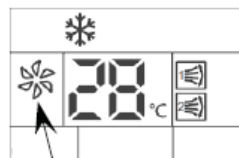
Heating Button	Press Heating button to activate heating mode on the screen
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- When Heating operation stops, sometimes air-supply operation will last automatically for about 2 minutes.

Operations on Temperature/Airflow

Volume/Direction

<p>Temperature</p>	<p>Point signal transmitter on remote control to the receiver and press the Δ ∇ button. Each press on Δ it will increase temperature by 1°C. (The maximum available temperature is 30°C) Each press on ∇ it will reduce temperature by 1°C. (The minimum temperature is 16°C)</p>	 <p>Indicates a set temperature of 28°C</p>
---------------------------	---	---

<p>Speed</p>	<p>Point signal transmitter on remote control to the receiver and press Speed button.</p> <p>Each press will toggle air velocity in the following sequence.</p> <div style="text-align: center;">  </div> <p>(※ Where three levels of airflow velocity are available in indoor unit.)</p> <div style="text-align: center;">  </div> <p>(※ Where six levels of airflow velocity are available in indoor unit.)</p> <p>(Long press Mode + Cool buttons for 3 or more seconds to toggle between two airflow modes)</p>	 <p>Indicates high-velocity airflow</p>
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<p>Horizontal airflow</p>	<p>Point signal transmitter on remote control to the receiver and press Horizontal Airflow button.</p>	<p>Fixed.....Screen displays stop position.</p>  <p>Automatic air deflection.....Screen displays all positions.</p> 
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※ Horizontal airflow is available only in some models.







<p>Vertical airflow</p>	<p>Point signal transmitter on remote control to the receiver and press Vertical Airflow button.</p> <p>※ (Long press Mode + Heat buttons for 3 or more seconds to toggle between display modes of 3D air outlet)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Screen</th> <th style="width: 35%;">When 3D air deflector is unavailable</th> <th style="width: 15%;">Screen</th> <th style="width: 35%;">When 3D air deflector is unavailable</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">Automatic</td> <td style="text-align: center;"></td> <td style="text-align: center;">Automatic</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">Cool</td> <td style="text-align: center;"></td> <td style="text-align: center;">Cool</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">Heat</td> <td style="text-align: center;"></td> <td style="text-align: center;">Heat</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">Dehumidify</td> <td style="text-align: center;"></td> <td style="text-align: center;">Dehumidify</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">Air Supply</td> <td style="text-align: center;"></td> <td style="text-align: center;">Air Supply</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">Automatic</td> <td style="text-align: center;"></td> <td style="text-align: center;">Automatic</td> </tr> </tbody> </table>	Screen	When 3D air deflector is unavailable	Screen	When 3D air deflector is unavailable		Automatic		Automatic		Cool		Cool		Heat		Heat		Dehumidify		Dehumidify		Air Supply		Air Supply		Automatic		Automatic
Screen	When 3D air deflector is unavailable	Screen	When 3D air deflector is unavailable																											
	Automatic		Automatic																											
	Cool		Cool																											
	Heat		Heat																											
	Dehumidify		Dehumidify																											
	Air Supply		Air Supply																											
	Automatic		Automatic																											


- Any setting will be stored and applied in future operation. To change any setting, perform related operations in accordance with the instructions (on setting of temperature, air velocity and direction) as given on this page.


Operations on Scheduled Start-Up

Operation and Functions

- Scheduled task means that the unit will be started or shut down when a set time has elapsed.
 - Scheduled start-up or scheduled shutdown can be set.
- If the Timer button is pressed down when air conditioner is **power-off**, the unit will be started when the set time has elapsed.


Scheduled task	<p>When air conditioner is power-off, press  button to display 0.5 hour on the screen, and press  or  to change the time. The air conditioner will be started when the set time has elapsed. For a set time up to 10 hours, the time will be set at an interval of 0.5 hour. For a set time between 10~ 23 hours, the time be set at an interval of 1 hour.</p> <p>When air conditioner is power-on, press  button to display 0.5 hour on the screen, and press  or  to change the time. The air conditioner will be powered off when the set time has elapsed.</p> <p>When any scheduled task is set, the set time value will be displayed on the screen.</p>
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Set	<p>Adjust scheduled time and point signal transmitter on remote control to the signal receiver and press  button, time on the screen stops flashing, and the scheduled task is activated successfully and the green timing indicator on the receiver turns on.</p>
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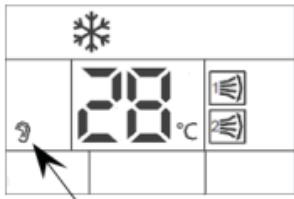
Cancel	<p>When any scheduled task is set, point signal transmitter on remote control to the signal receiver and press  button, the green timing indicator on the receiver goes out, and the scheduled task is canceled.</p>
--------	---

Operations on Power Saving/Mute/Sleep


The following additional functions are available in some models. For more details consult your local dealer.

Power saving	<p>When air conditioner is power-on: Point signal transmitter on remote control to the receiver and press the ECO button.</p> <p>Air conditioner starts operation in power saving mode and the power saving icon is activated on the screen of remote control.</p> <p>Press ECO button to deactivate power saving mode.</p> <p>※ This function is available only in some models.</p>	 <p>Indicates that air conditioner operates in power saving mode.</p>
---------------------	--	---

- Indoor units can control air volume automatically when mute function is activated. When mute function is activated via remote control, current air volume will be displayed and cannot be regulated.
- When air conditioner is powered off, mute function will be deactivated.
- When operation mode is toggled, mute function will be deactivated.

Mute	<p>When air conditioner is power-on: Point signal transmitter on remote control to the receiver and press the button Mute.</p> <p>Air conditioner starts operation in mute mode and the mute icon is activated on the screen of remote control.</p> <p>Press Mute button to deactivate.</p>	 <p>Indicates that air conditioner operates in mute mode.</p>
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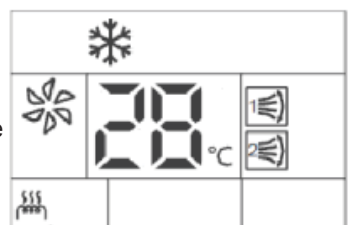

- Indoor units can control air volume automatically when mute function is activated. When mute function is activated via remote control, current air volume will be displayed and cannot be regulated.
- When air conditioner is powered off, mute function will be deactivated.
- When operation mode is toggled, mute function will be deactivated.

Sleep	<p>When air conditioner is power-on: Point signal transmitter on remote control to the receiver and press the button Sleep.</p> <p>Each press will toggle sleep mode in the following sequence:</p> <p>→ Sleep → Wake-up → Store → Cancel</p> <p>Air conditioner starts operation in sleep mode and the sleep icon is activated on the screen of remote control.</p> <p>The default sleep duration is 8 hours, which can be changed by using Timer button.</p>	 <p>Indicates that sleep mode is activated.</p>
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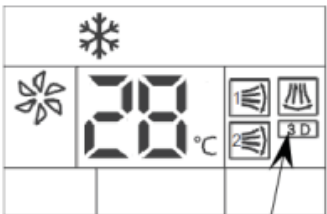
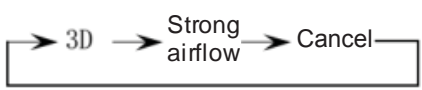
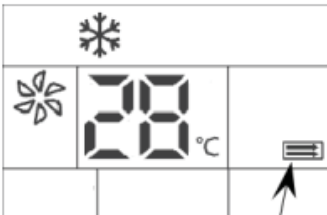
- Sleep mode can be activated only when the unit is power-on.
- When air conditioner is powered off, Sleep mode will be deactivated.
- When operation mode is toggled, Sleep mode will be deactivated.
- When any scheduled task is canceled, Sleep mode will be deactivated.

Operations on Strong Heating/3D/Strong Airflow/Health Mode

The following additional functions are available in some models. For more details consult your local dealer.

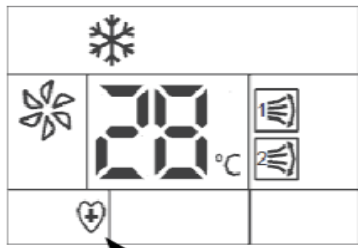

Strong	Point signal transmitter on remote control to the receiver and press the button S.H. .	
	Air conditioner starts operation in strong heating mode and Strong Heating icon is activated on the screen of remote control.	
	Press S.H. button to deactivated strong heating mode.	
	※ This function is available only in some models.	Indicates that air conditioner operates in strong heating mode.

- Strong heating mode is available only in heating operation.
- When air conditioner is powered off, strong heating mode will be deactivated.
- When operation mode is toggled, strong heating mode will be deactivated.

3D/ Strong airflow	Point signal transmitter on remote control to the receiver and press the button 3D/S .	
	Each press will toggle sleep mode in the following sequence:	
		Indicates that 3D airflow mode is activated.
	Air conditioner starts operation in 3D airflow mode and 3D airflow icon is activated on the screen of remote control. In such case both horizontal and vertical air streams are displayed.	
	Air conditioner starts operation in strong airflow mode and strong airflow icon is activated on the screen of remote control. In such case neither horizontal nor vertical air stream is displayed.	
		Indicates that strong airflow mode is activated.

- 3D/strong airflow can be activated only when the unit is power-on.
- When air conditioner is powered off, 3D/strong airflow mode will be deactivated.

When 3D/strong airflow mode is activated, neither horizontal airflow button or vertical airflow button will be unavailable.

Green	Point signal transmitter on remote control to the receiver and press the button Green .	
	Air conditioner starts operation in health mode and health icon is activated on the screen of remote control.	
	Press Green button to deactivate health mode.	
	※ This function is available only in some models.	Indicates that air conditioner operates in health mode.

- Health mode is available only when air conditioner is power-on.
- When air conditioner is powered off, health mode will be deactivated.

7. Mounting Remote Control on Wall

- Note: When remote control is mounted on wall, the receiver on indoor unit may fails to receive signals from it when the remote control is manipulated. In such case, remove the remote control from wall and then manipulate it by pointing it toward the receiver.
- The remote control should be mounted at a position accessible to user, but not at any position as shown below:



- The following considerations shall be taken into when the remote control is mounted at a location exposed to electromagnetic wave:
 - (1) Do not mount the remote control at any location exposed to EMI.
 - (2) Keep the remote control at least 3 meters away from any device emitting EMW to minimize interference with signal transmission.
- Do not mount the remote control at any location exposed to any flammable gas.
- When the remote control is mounted on wall, keep it at least 30 cm away from any power supply cable.

Operation & Installation Manual for Wireless Receiver Kit

Model: HYRE-T01H HYRE-T02H HYRE-V01H HYRE-V02H HYRE-V11H HYRE-X01H


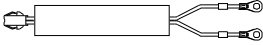
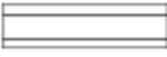

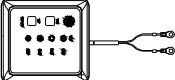
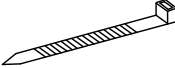



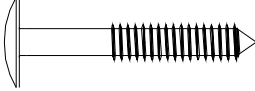

CAUTION

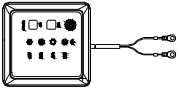
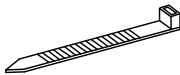
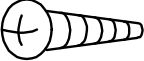


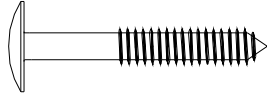


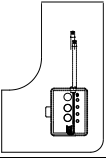


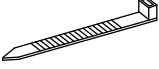
Do NOT turn ON the power source, unless the preparation for test running is completed.

- Read this manual carefully before installation work for correct performance.
- Read this manual together with the “Installation & Maintenance Manual” for the indoor unit and Wireless Remote Control Switch.
- is the blank box for checking. Mark the blank box for the item after checking.

1. Before Installation and Operation

1) This packing contains the following parts. Check the contents and number of the parts.

Model	Name	Q'ty	Remarks
HYRE-T01H HYRE-T02H	Receiver Kit 	1	With Connection Wire
	Connecting Cable 	1	With Connection Wire
	Cover 	1	For Protection of Connecting Cable
	Band 	3	For Fixing Cable
	Receiver Kit 	1	With Connection Cable
HYRE-V01H HYRE-V02H	Band 	1	For Fixing Cable
	Screw 	2	For Fixing Receiver Kit
	Screw 	2	For Fixing Clamp
	Screw 	2	For Fixing Receiver Kit
	Screw 	2	For Fixing Receiver Kit
	Clamp 	2	For Fixing Cable

HYRE-V11H	Receiver Kit		1	With Connection Cable
	Band		1	For Fixing Cable
	Screw		2	For Fixing Receiver Kit
	Screw		2	For Fixing Clamp
	Screw		2	For Fixing Receiver Kit
	Screw		2	For Fixing Receiver Kit
	Clamp		2	For Fixing Cable
	Expanded PCB		1	Communication With Receiver Kit
HYRE-X01H	Receiver Kit		1	With Connection Cable
	Connecting Cable		1	With Connection
	Cover		1	For Protection of Connecting Cable
	Band		1	For Fixing Cable
General	Operation Manual		1	—
	Installation manual		1	—

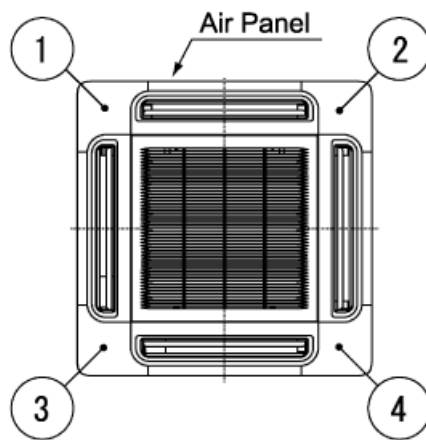
2. Installation of Wireless Receiver Kit

HYRE-T01H HYRE-T02H

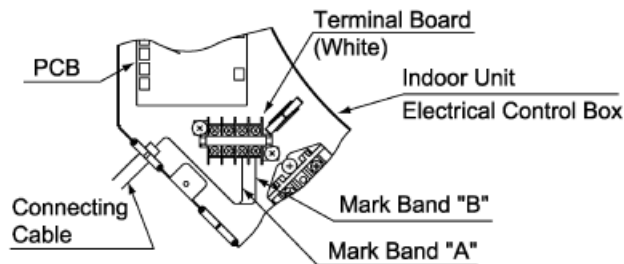
NOTE:

Install the receiver kit onto the air panel.

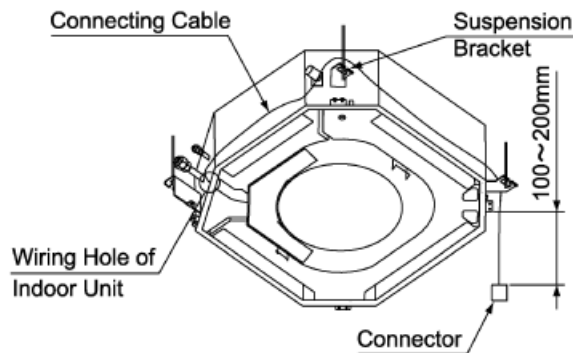
- 1) Install the wireless receiver kit, the indoor unit and the air panel at the same time.
- 2) Check to ensure that the distance between the wireless receiver kit and the EMI Source is larger than 3m.
- 3) In case that the wireless receiver kit is installed after installing the indoor unit, turn off the power source of the indoor unit and remove the air panel.
- 4) This receiver kit can be installed at the position of ①, ②, ③ or ④.



- 5) Remove the cover of indoor unit electrical control box and connect the cable to the terminal board (white) as shown below.



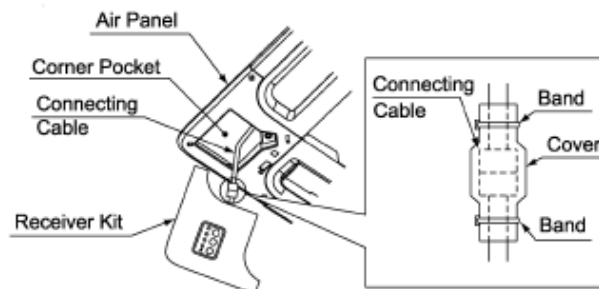
- 6) Draw out the connecting cable from the wiring hole of the indoor unit, and lead the cable over the suspension bracket of the indoor unit to the installing position of the receiver kit. Bundle the extra cable with a band.



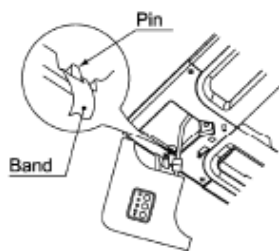
□7) Install the air panel (option) onto the indoor unit.

□8) Attach the receiver kit in the following procedure.

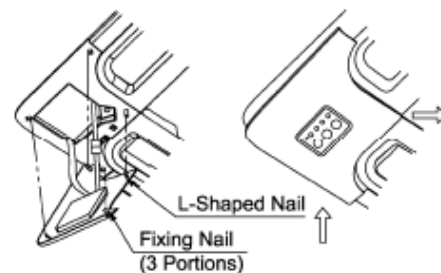
- ① Draw out the connecting cable from the corner pocket and connect the connecting cable and the wire of the receiver kit. After connecting the cable, wrap the connector with the cover and fix them with a band.



- ② Hook the band on the rear side of the receiver kit at the pin of the air panel as shown below.



- ③ Hook the L-shaped nail on the rear side of the receiver kit at the square hole of the air panel.

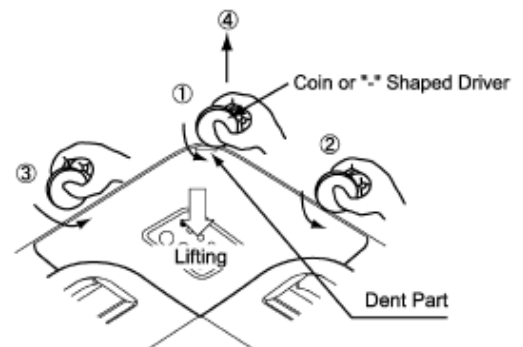


- 9) Hook other fixing nails (3 positions) at square holes of the air panel.

NOTE:

When removing the receiver kit after installing the air panel;

- 1) The corner position of the receiver kit can be lifted when a coin or a “-” shaped driver is inserted into the dent part ① and twisted downward. With ① lifted, twist a coin or a “-” shaped driver at the positions of ② and ③, the whole receiver kit can be lifted.
- 2) After disconnecting the fixing nails (3 positions), slide the receiver kit in the arrow direction (④) and remove the receiver kit.



CAUTION

Pay attention to the following installation procedures. If not, it may drop from the panel, resulting in a serious accident.

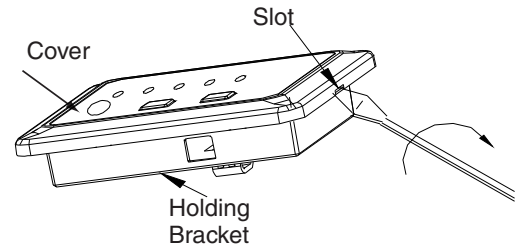
Wireless Receiver Kit

HYRE-V01H HYRE-V02H

NOTE:

Install the receiver kit onto the wall or ceiling near the indoor unit.

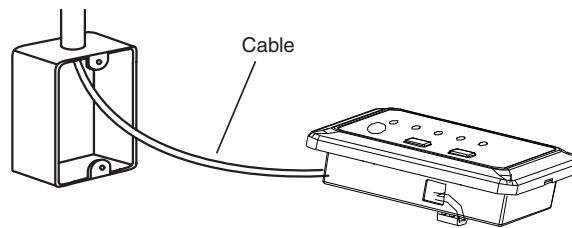
- 1) Install the wireless receiver kit and indoor unit at the same time.
- 2) In case that the wireless receiver kit is installed after installing the indoor unit, turn OFF the power source of the indoor unit.
- 3) Check to ensure that the distance between the wireless receiver kit and the indoor unit is shorter than 5m.
- 4) Check to ensure that the distance between the wireless receiver kit and the EMI Source is larger than 3m.
- 5) Remove the cover by using slotted screwdriver.
- 6) Install the wireless receiver kit onto the wall or ceiling as follows:



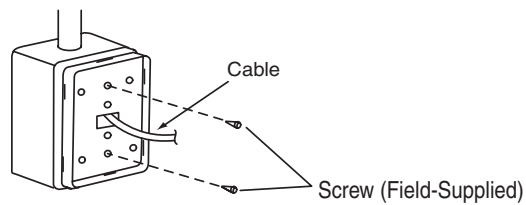
- (1) Prepare the following box (Field-Supplied).



- (2) Insert the cable into the rigid metal conduit.

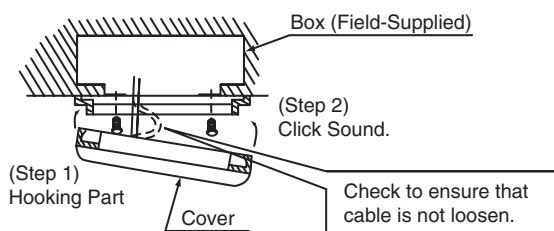


- (3) Fix the fixing bracket of kit by using screw (Field-Supplied).



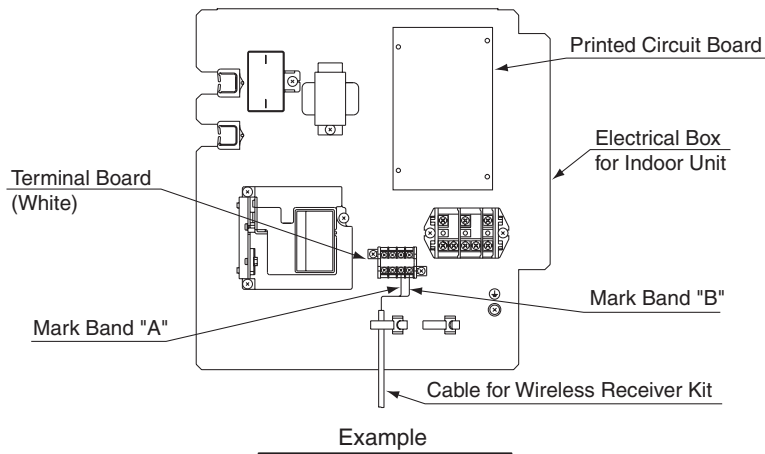
● This figure shows the case of Switch Box for 1 Controller.

- (4) Attach the cover same as A-(4).



(5) Remove the cover of indoor unit electrical control box and connect the cable to the terminals A and B of the terminal board (white).

After connecting the cable, bind up the remaining cable length portion by band (Factory-Supplied) and put them in the electrical control box.



NOTES:

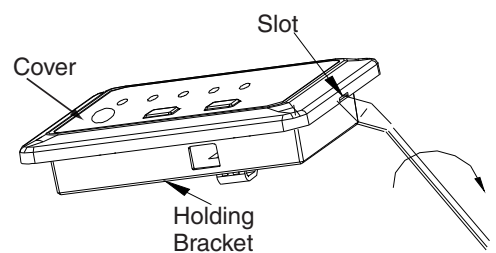
- Protective box recommend size 99.5 by 92.5 by 35 mm, fixed hole center is 78 mm.
- Receiver panel with transparent plastic protective film, the official may required removed according to user.
- Remove the cover by using slotted screwdriver.
- When the back cover installation, to tidy up wiring, attention to the back cover marked \"switch\" that justify the board of SW1 switch position.
- If not according to the requirements of sequenced operations, may cause install or remove substrate difficulties.

HYRE-V11H

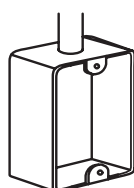
NOTE:

Install the receiver kit onto the wall or ceiling near the indoor unit.

- 1) Install the wireless receiver kit and indoor unit at the same time.
- 2) In case that the wireless receiver kit is installed after installing the indoor unit, turn OFF the power source of the indoor unit.
- 3) Check to ensure that the distance between the wireless receiver kit and the indoor unit is shorter than 5m.
- 4) Check to ensure that the distance between the wireless receiver kit and the EMI Source is larger than 3m.
- 5) Remove the cover by using slotted screwdriver.



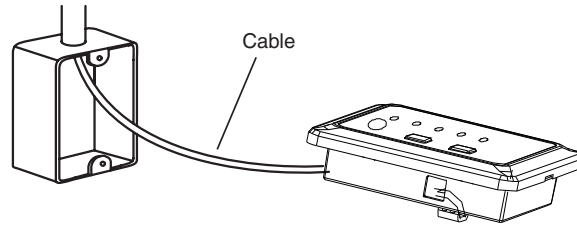
(1) Prepare the following box (Field-Supplied).



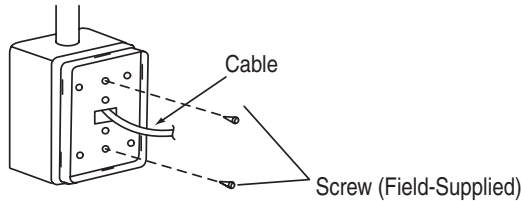
- Rigid Metal Conduit
- Screw (M4) (Field-Supplied)

Wireless Receiver Kit

- (2) Insert the cable into the rigid metal conduit. Then install the expanded PCB.
The install of expanded PCB refer to step (6).

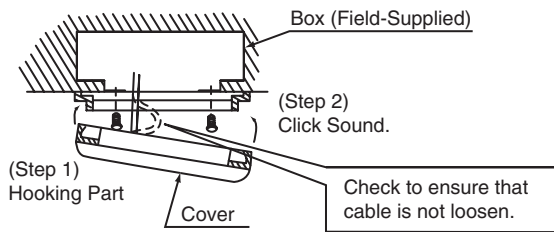


- (3) Fix the fixing bracket of kit by using screw (Field-Supplied).



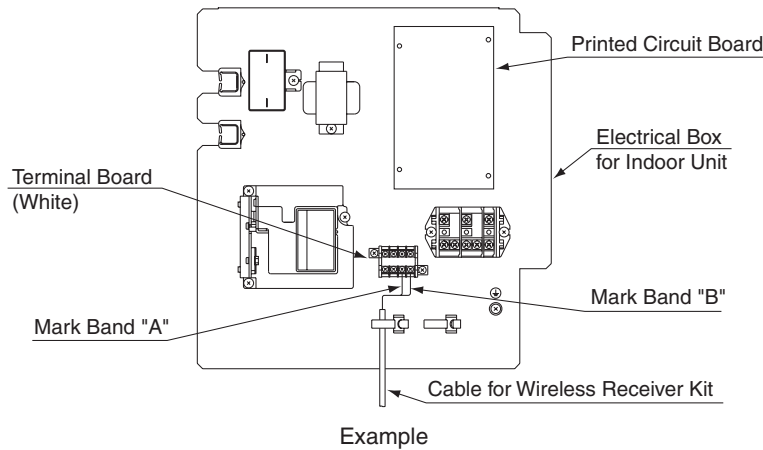
● This figure shows the case of Switch Box for 1 Controller.

- (4) Attach the cover same as A-(4).



- (5) Remove the cover of indoor unit electrical control box and connect the cable to the terminals A and B of the terminal board (white).

After connecting the cable, bind up the remaining cable length portion by band (Factory-Supplied) and put them in the electrical control box.



NOTES:

- Protective box recommend size 99.5 by 92.5 by 35 mm, fixed hole center is 78 mm.
- Receiver panel with transparent plastic protective film, the official may required removed according to user.
- Remove the cover by using slotted screwdriver.
- When the back cover installation, to tidy up wiring, attention to the back cover marked "switch" that justify the board of SW1 switch position
- If not according to the requirements of sequenced operations, may cause install or remove substrate difficulties.

(6) The install of expanded PCB :

- As shown in figure 1 below. Connect the receiver kit to terminal CN23 of the expanded PCB.

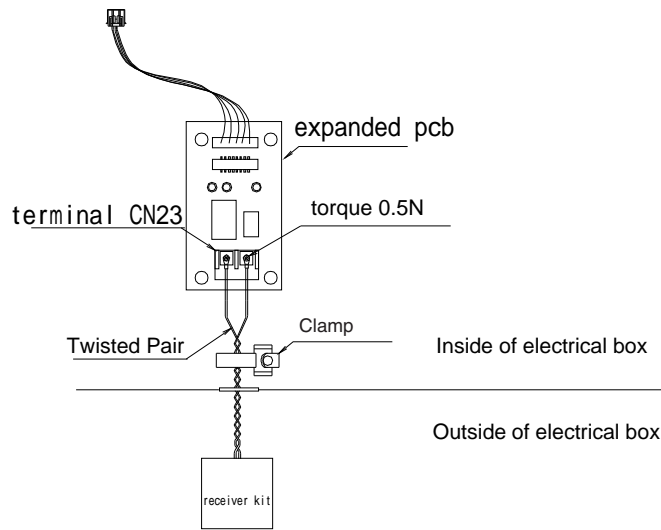


Fig. 1

- As shown in figure 2. In the electrical box there are four spare white supporting feet, arranging for 63 mm x 26 mm rectangle. Set the extended pcb up to these four white support feet.

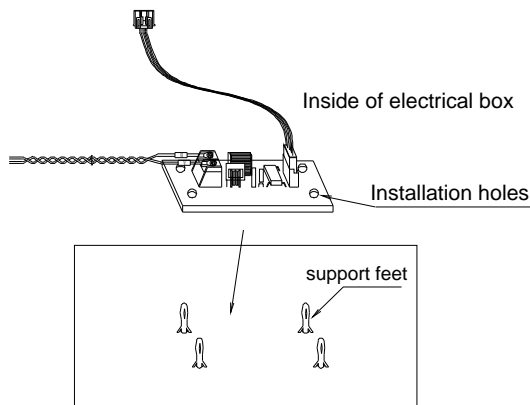


Fig. 2

- As shown in figure 3. Connect the bring wiring of the expanded pcb (labeling CN21) to the terminal CN21 of master pcb.

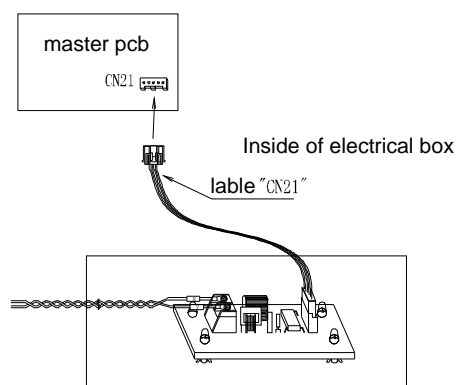


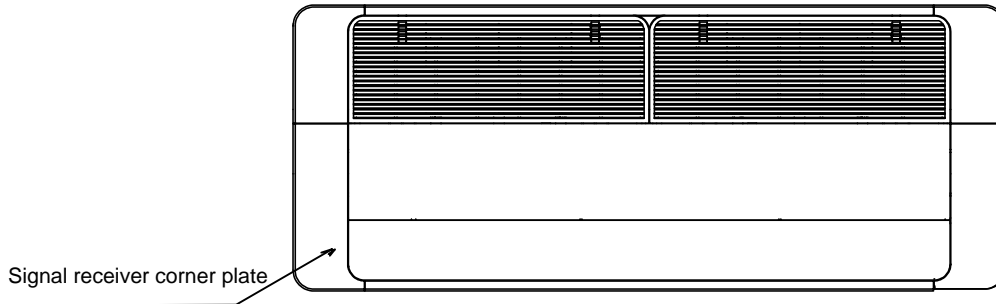
Fig. 3

- Using clamp tighten twisted-pair .

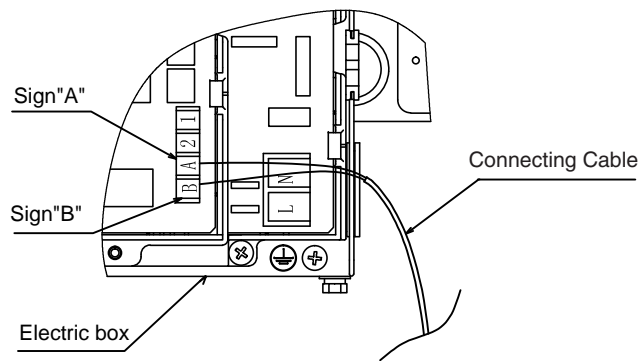
Wireless Receiver Kit

HYRE-X01H

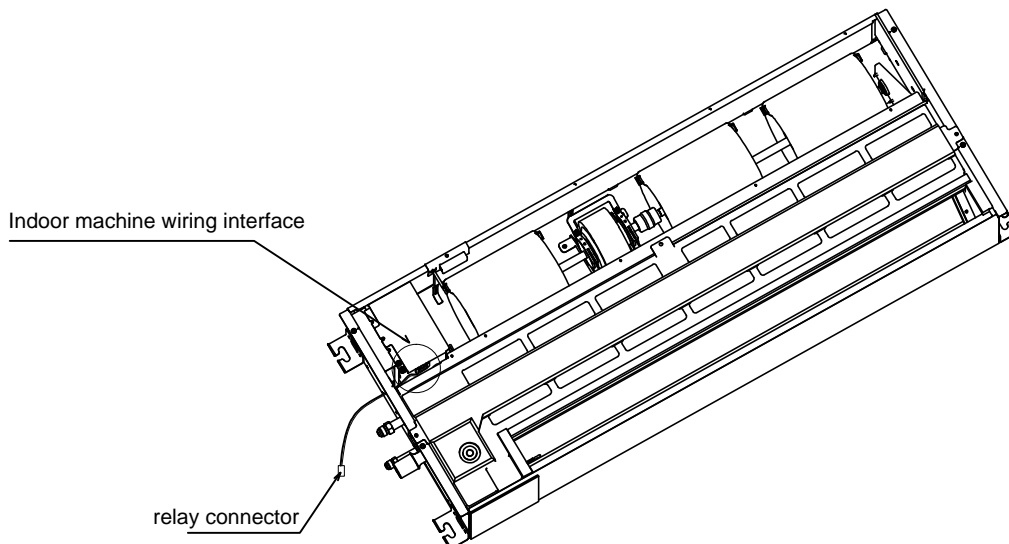
- 1) Install the wireless receiver kit, the indoor unit and the air panel at the same time.
- 2) In case that the wireless receiver kit is installed after installing the indoor unit, turn off the power source of the indoor unit and remove the air panel.
- 3) This receiver kit can be installed at the position of signal receiver corner plate.



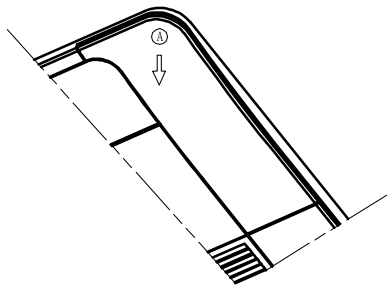
- 4) Remove the cover of indoor unit electrical box and connect the cable to the terminal board as shown below.
- 5) Connect the connector with the lead wire on the terminal



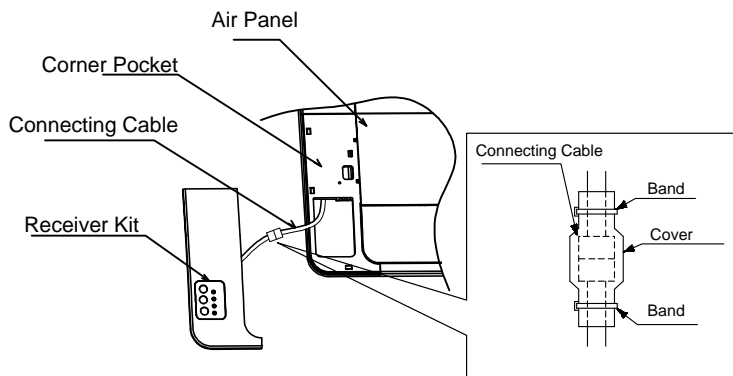
NOTES: The excess part of the wire is tied to the ceiling or outside the machine



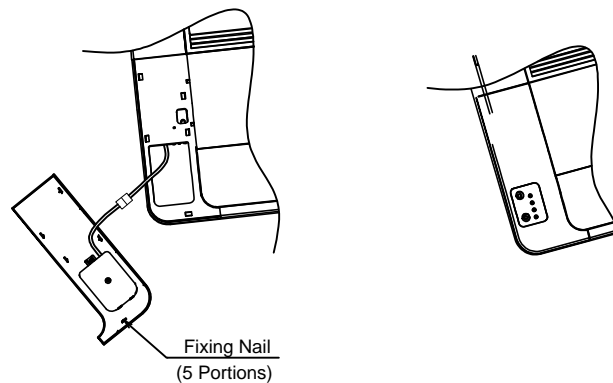
□ 6) After the panel is installed, remove the receiver panel, as shown in figure A, and then install the signal receiver.



□ 7) Draw out the connecting cable from the corner pocket and connect the connecting cable and the wire of the receive kit. After connecting the cable, wrap the connector with the cover and fix them with a band.



□ 8) Fit the receiver corner into the corner box and press lightly.

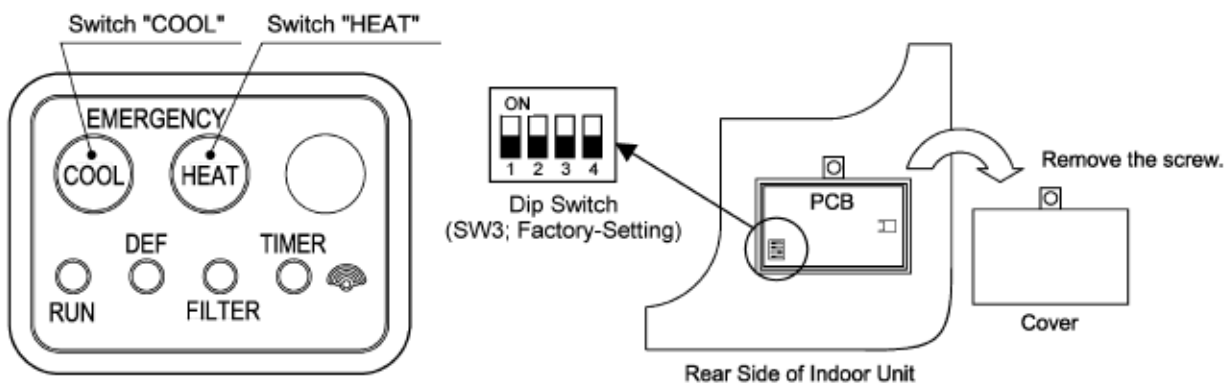


3. Optional Functions

HYRE-T01H , HYRE-T02H

□ 1) Optional Function Setting

Open the lid of cover so that the following functions are available.



Wireless Receiver Kit

□ 2) Optional Setting for Dip Switch (SW3)

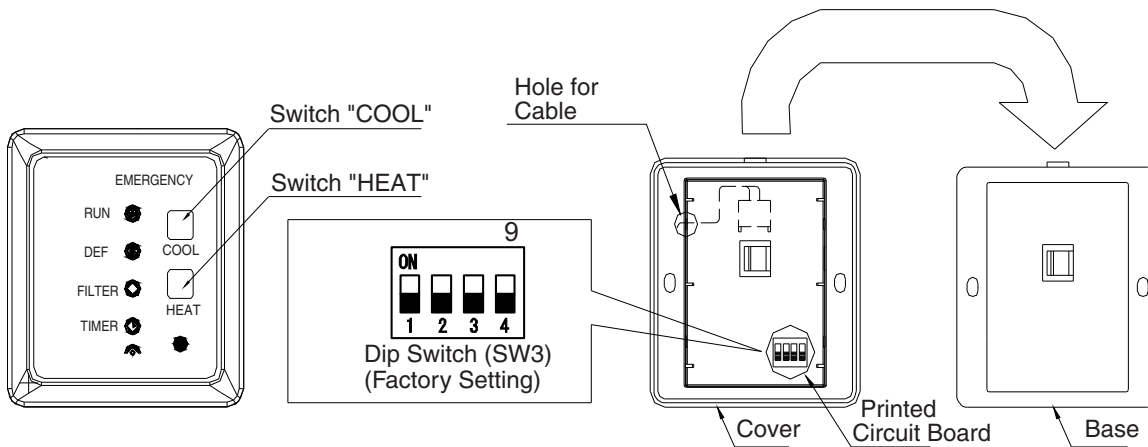
Operation Function	Dip Switch Setting (SW3)			
	1	2	3	4
Setting of Sub Receiver Kit	○	×	×	×
Identifying of Indoor Units	×	○	×	×

○ : ON, × : OFF

HYRE-V01H 、 HYRE-V02H 、 HYRE-V11H

□ 1) Optional Function Setting

Open the lid of cover so that the following functions are available.



□ 2) Optional Setting for Dip Switch (SW3)

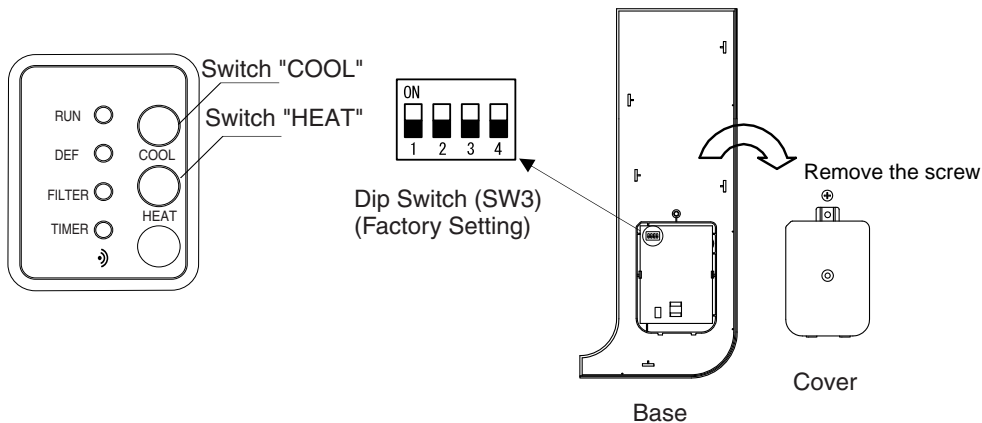
Operation Function	Dip Switch Setting (SW3)			
	1	2	3	4
Setting of Sub Receiver Kit	○	×	×	×
Identifying of Indoor Units	×	○	×	×

○ : ON, × : OFF

HYRE-X01H

□ 1) Optional Function Setting

Open the lid of cover so that the following functions are available.



□ 2) Optional Setting for Dip Switch (SW3)

Operation Function	Dip Switch Setting (SW3)			
	1	2	3	4
Setting of Sub Receiver Kit	○	×	×	×
Identifying of Indoor Units	×	○	×	×

○ : ON, × : OFF

4. Others

1) Proceed the "TEST RUN" mode by using "Operation & Installation Manual" for the wireless remote control switch.

★ Turn OFF all power sources before setting the dip switches.

2) Emergency Operation Setting (Refer to the figure of the item 3 "Optional Functions".)
In case that wireless remote control switch is unusable by batteries shortage, etc., perform emergency operation as follows.

- (1) Switch "COOL": Press "COOL" so that the cooling operation is started.
Press "COOL" again so that the cooling operation is stopped.
- (2) Switch "HEAT": Press "HEAT" so that the heating operation is started.
Press "HEAT" again so that the heating operation is stopped.

NOTE:

During the emergency operation, the LED (yellow) blinks (0.5 second ON / 0.5 second OFF).

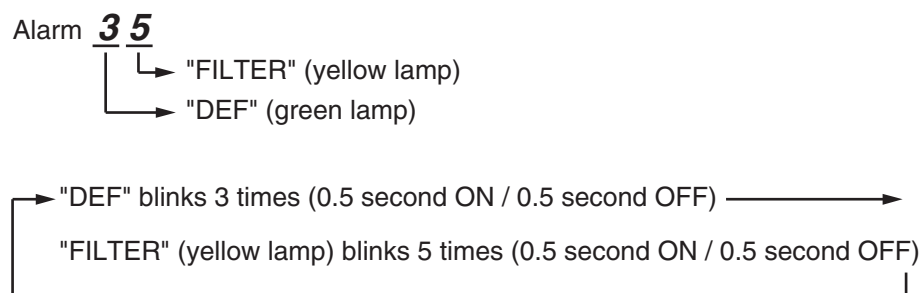
3) Alarm Code Indication

- In case that some trouble occurs because of activation of safety device, etc., "RUN" (red lamp) blinks (0.5 second ON / 0.5 second OFF).
- Refer to the Installation Manual for outdoor unit about Alarm Code List.
- Alarm Code indicates the blinking times of "DEF" (green lamp) and "FILTER" (yellow lamp) as shown below.

"DEF" (green lamp): The blinking is shown at the 2 digit of Alarm Code

"FILTER" (yellow lamp): The blinking is shown at the 1 digit of Alarm Code

(Alphabet Code: A=10 times, B=11 times, C=12 times,)

- Example -

- "Run" (red lamp) blinking (1 second ON / 1 second OFF) indicates abnormal transmitting between Indoor Units and Outdoor Unit.

Hisense Installation & Operation Manual

Control Timer [7-Day Timer] (Model:HYDE-E01H)

IMPORTANT:

READ AND UNDERSTAND THIS MANUAL BEFORE USING THIS CONTROL TIMER.
KEEP THIS MANUAL FOR FUTURE REFERENCE.

IMPORTANT NOTICE:

- No part of this manual may be reproduced without written permission.
- Signal words (DANGER, WARNING and CAUTION) are used to identify levels of hazard seriousness. Definitions of identifying hazard levels are provided below with their respective signal words.

⚠ DANGER : Immediate hazards which WILL result in severe personal injury or death.

⚠ WARNING : Hazards or unsafe practices which COULD result in severe personal injury or death.

⚠ CAUTION : Hazards or unsafe practices which COULD result in minor personal injury or product or property damage.

NOTE : Useful information for operation and/or maintenance.

1. Safety Summary

⚠ DANGER

- DO NOT pour water into the control timer (hereafter called "Timer"). This product is equipped with electrical parts. If poured, it will cause a serious electrical shock.

⚠ WARNING

- DO NOT perform installation work and electrical wiring connection by yourself. Contact your distributor or dealer of Hisense and ask them for installation work and electrical wiring by service person.
- DO NOT turn OFF the power supply within 3 minutes after operation order from the controller. It may cause the malfunction.

⚠ CAUTION

- DO NOT install the indoor unit, outdoor unit, Timer and cable at such places as;
 1. where there is oil vapor and the oil is dispersed
 2. where the hot springs are near (in a sulfuric environment)
 3. where generation, flowing, staying or leaking of flammable gas is detected
 4. where the sea is near (in the salty environment)
 5. an acid or alkaline environment
- DO NOT install the indoor unit, outdoor unit, Timer and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment. In case that the Timer is installed in a place where there is electromagnetic wave radiation, shield the Timer and cables by covering with the steel box and running the cable through the metal conduit tube.
- In case that there is electric noise at the power source for the indoor unit, provide a noise filter.

2. Installation Work

[2.1 Selection of Installation Place]

- 1) Select a suitable place for handling and determine the installation place of the Timer with the customer's acceptance. Do not install the Timer at such place as;
- where children can touch
 - where the air from the air conditioner is directly discharged

[2.2 Before Installation]

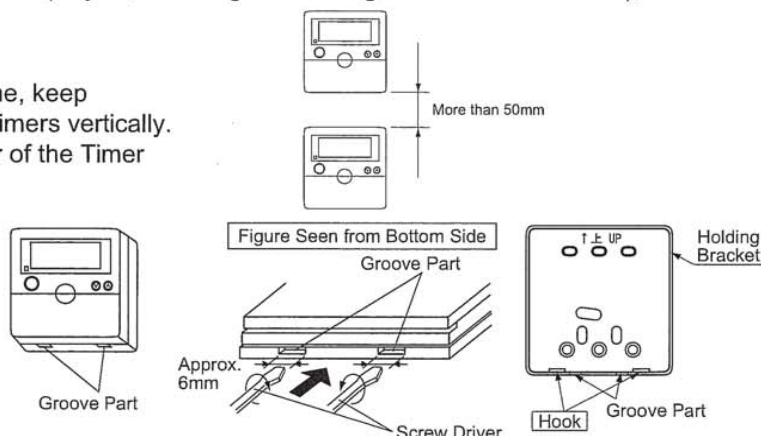
- This packing contains the following parts ([A] to [C]);
- [A] Control Timer (Q'ty: 1), [B] Screw <M4 x 16L> (Q'ty: 2, for Fixing the Holding Bracket onto the Wall),
[C] Cable <1m> (Q'ty: 1)

[2.3 Installation Place]

- 1) In case of installing the Timers in vertical line, keep a distance more than 50mm between the Timers vertically. If the distance is insufficient, the front cover of the Timer can not open wide enough.

[2.4 Installation Procedures]

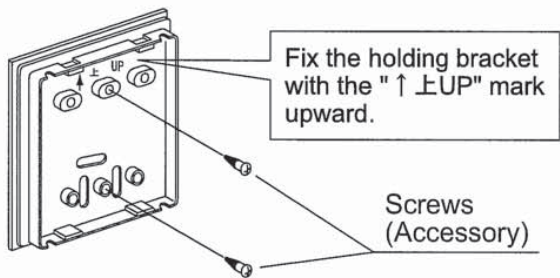
- 1) Insert the edge of the screwdriver into the groove parts at the bottom of the holding bracket, push and turn the screwdriver and remove the Timer from the holding bracket.



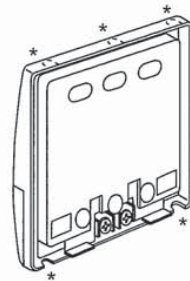
□ 2) Attach the Timer to the holding bracket and connect the cable as follows.

A. In Case of Exposing Remote Control Cable

1. Fix the holding bracket onto the wall with screws (accessory).

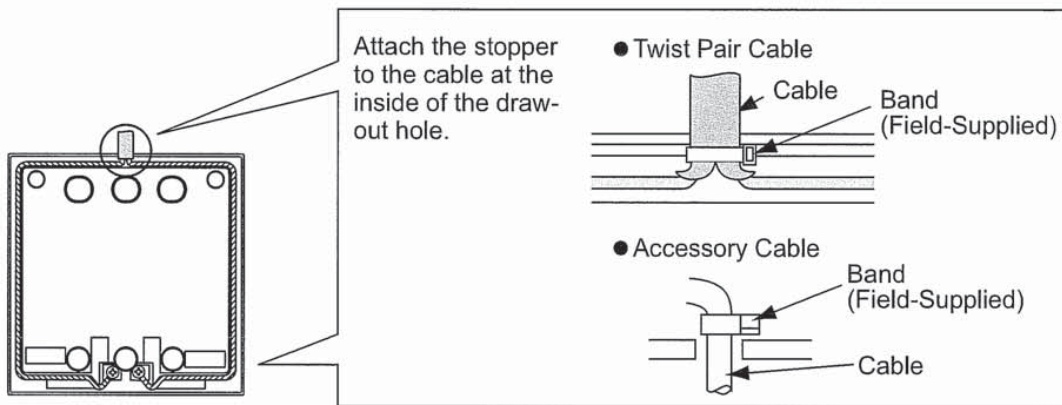


2. Select and cut the knockout hole according to the direction for drawing out the cable.

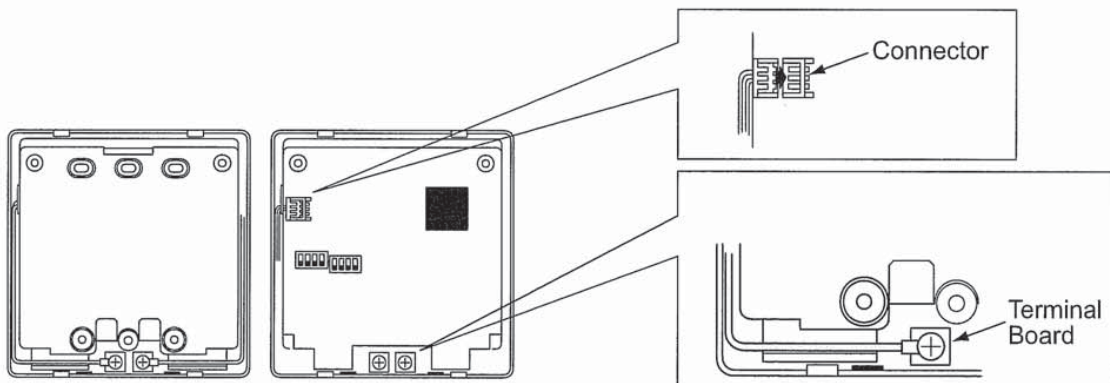


Determine the direction for drawing out the cable according to the cable arrangement and cut the knockout hole (one of five positions marked with * in the left figure). In case of using accessory cable, draw out the cable from one of the knockout holes at the lower side.

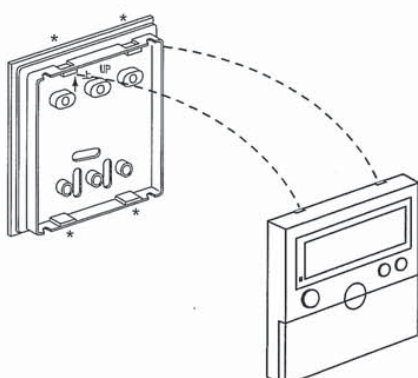
3. Lead the cable through the groove.



In case of connecting the accessory cable to the connector, remove the protection case.



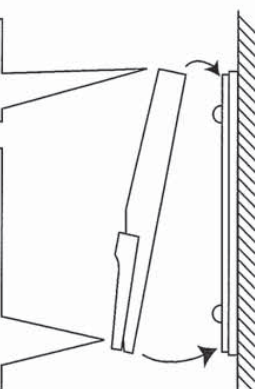
4. Attach the Timer onto the holding bracket.



Step 1: Insert the hooks of the Timer to the holes at the upper side of the holding bracket.

Step 2: Push the lower part of the Timer toward the holding bracket.

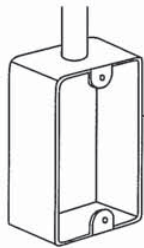
Step 3: When the click sound is heard, the Timer is attached to the holding bracket and the mounting work is completed. Check to ensure that the 4 hooks at the position * are correctly inserted.



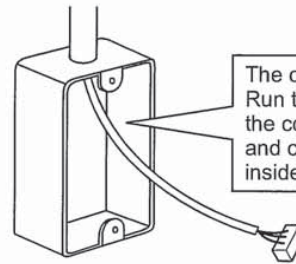
B. When Using Switch Box

1. Prepare a field-supplied JIS Box (JIS C 8336-1988).

2. Run the cable through the conduit tube in the wall.

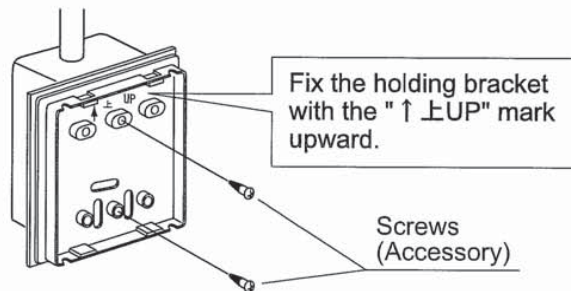


The following 5 types are available.
 1. Switch Box for 1 Controller (Without Cover)
 2. Switch Box for 2 Controllers (Without Cover)
 3. Switch Box for 1 Controller (With Cover)
 4. Switch Box for 2 Controllers (With Cover)
 5. Outlet Box (With Cover)



The cable is not exposed. Run the cable through the conduit tube in the wall and connect the cable inside the switch box.

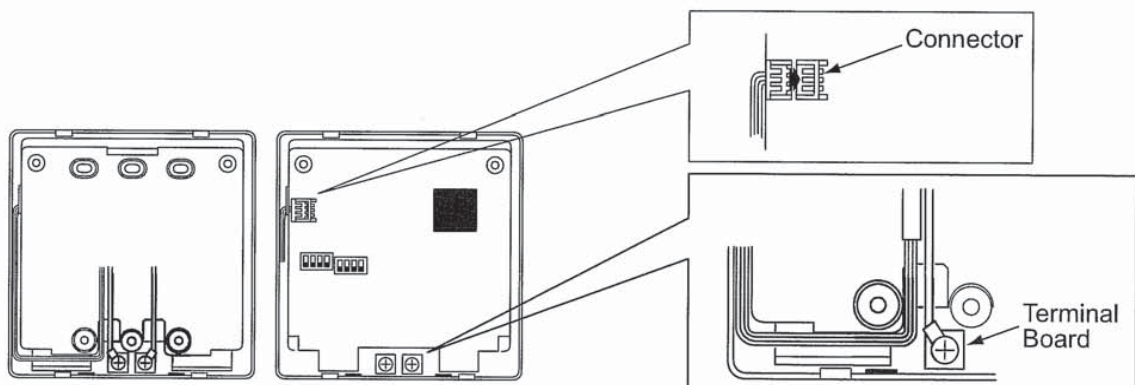
3. Attach the holding bracket onto the switch box.



Fix the holding bracket with the "↑ UP" mark upward.

Screws (Accessory)

4. Connect the cable to the connector on PCB or the terminal.



Connector

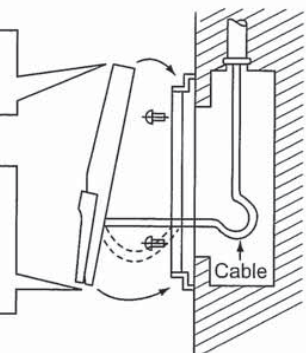
Terminal Board

5. Attach the Timer onto the holding bracket.

Step 1:
Insert the hooks of the Timer to the holes at the upper side of the holding bracket.

Step 2:
Push the lower part of the Timer toward the holding bracket.

Step 3:
When a click sound is heard, the Timer is attached to the holding bracket and the mounting work is completed.



Cable

⚠ CAUTION

Pay attention so that the cable may not be slack.

If the cable is slack as shown in the right figure, the cable cord (especially the naked part) may be clamped at the hole and it may cause a faulty operation.

3. Electrical Wiring

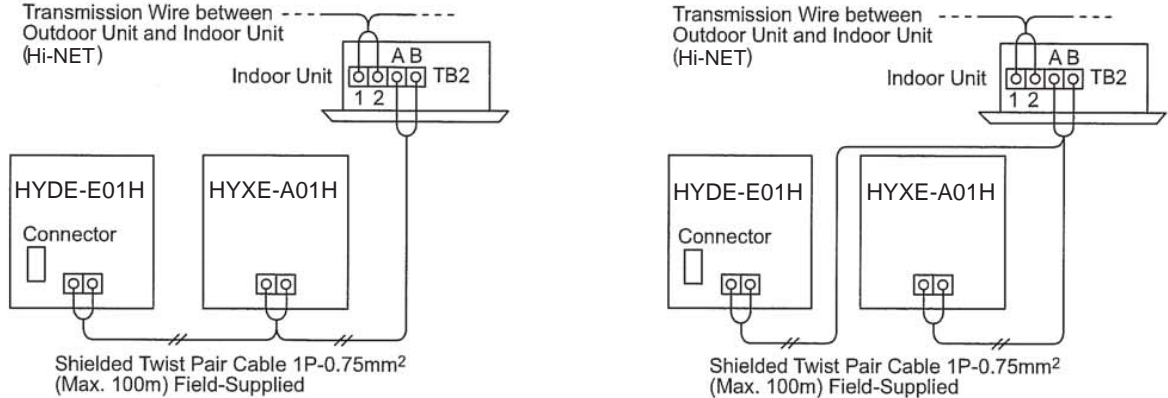
Use this Timer with Remote Control Switch or Central Station.

CAUTION

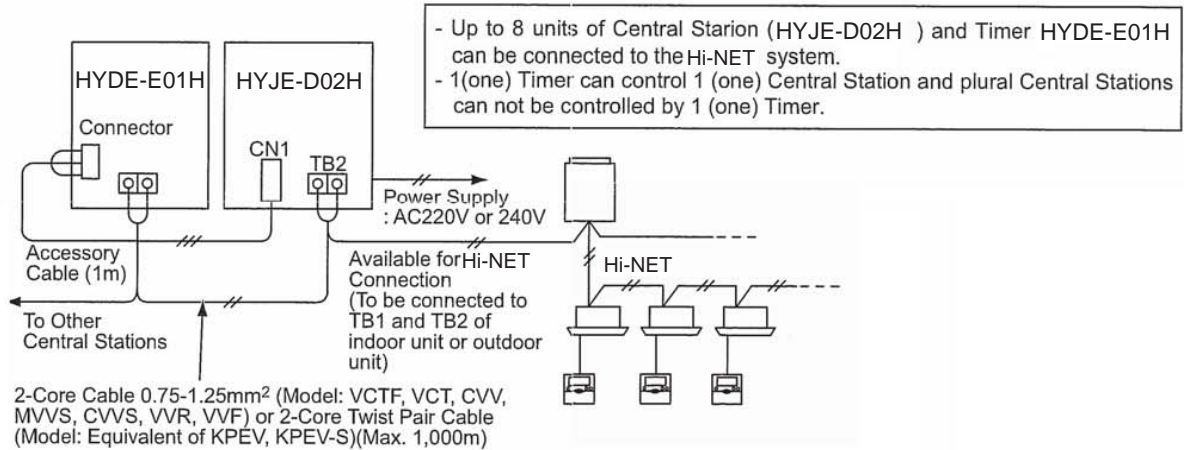
- Use 2-Core Cable 0.75-1.25mm² (Model: VCTF, VCT, CVV, MVVS, CVVS, VVR, VVF) or 2-Core Twist Pair Cable (Model: Equivalent of KPEV, KPEV-S)(Max.1,000m) as a transmission wire cable for prevention of the malfunction.
- Keep a distance more than 30cm between the remote control cable and the transmission wire of indoor units.

□ Electrical Wiring

1. In case of using Timer with HYXE-A01H
Set DSW1-4 pin and DSW2-2 pin ON.

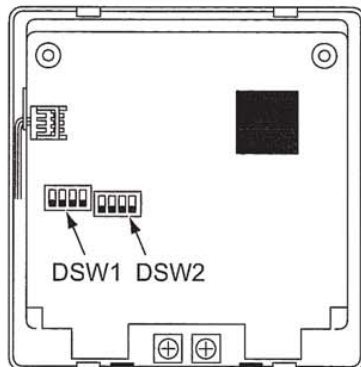


2. In case of using Timer with HYJE-D02H (Central Station)
Set DSW1-4 pin and DSW2-2 pin OFF.



4. Setting of Dip Switch

- Set the two dip switches on the PCB as follows.
(The factory-settings for dip switches of DSW1 and DSW2 are all OFF.)



- Dip Switch Setting

	Pin No.	Contents of Setting	DSW Setting		Remarks
			OFF	ON	
DSW1	1	For Address Setting	Refer to the table below.		Setting is required only when the central station HYJE-D02H is used together. Set DSW1-1 to 3 pin with the same setting of the central station to control.
	2				
	3				
	4	For Other Controller Used Together	Except for HYXE-A01H	HYXE-A01H	Set #4 pin ON when the remote control switch (HYXE-A01H) is used together.
DSW2	1	Setting for prohibition of remote control operation after stopping at OFF TIME	Setting is not available.	Setting is available.	Remote control operation is not available after stopping at OFF TIME. Remote control operation is available again at ON TIME while stopping. (This setting is available only when the remote control switch (HYXE-A01H) or the central station HYJE-D02H is used together. * This function is available during the timer pause mode, however, not available on the days set as holiday.
	2	For Other Controller Used Together	HYJE-D02H	Except for HYJE-D02H	Set #2 pin depending on the other controller used together.
	3	Not Used	-	-	Do not change the setting (#3 pin: OFF).
	4	Not Used	-	-	Do not change the setting (#4 pin: OFF).

- Setting of DSW1 (For Address Setting)

Address	0	1	2	3
Setting of DSW1	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4
Address	4	5	6	7
Setting of DSW1	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4

5. Test Running

Perform the test running according to the procedure described below.

Preparation:

Set the operation schedule according to the "7. Operation Procedure".

- (1) In the case where the present time indication is ON TIME (The "RUN" lamp of the control timer is ON).
 1. Set the present time at the time one minute before the OFF time.
 2. One minute later, check to ensure that the target indoor unit is stopped.
 3. After checking, set the present time at the time one minute before the ON time.
 4. One minute later, check to ensure that the target indoor unit is operated.
- (2) In the case where the present time indication is OFF TIME (The "RUN" lamp of the control timer is OFF).
 1. Set the present time at the time one minute before the ON time.
 2. One minute later, check to ensure that the target indoor unit is operated.
 3. After checking, set the present time at the time one minute before the OFF time.
 4. One minute later, check to ensure that target indoor unit is stopped.

*After the test running, set the present time at the correct time again.

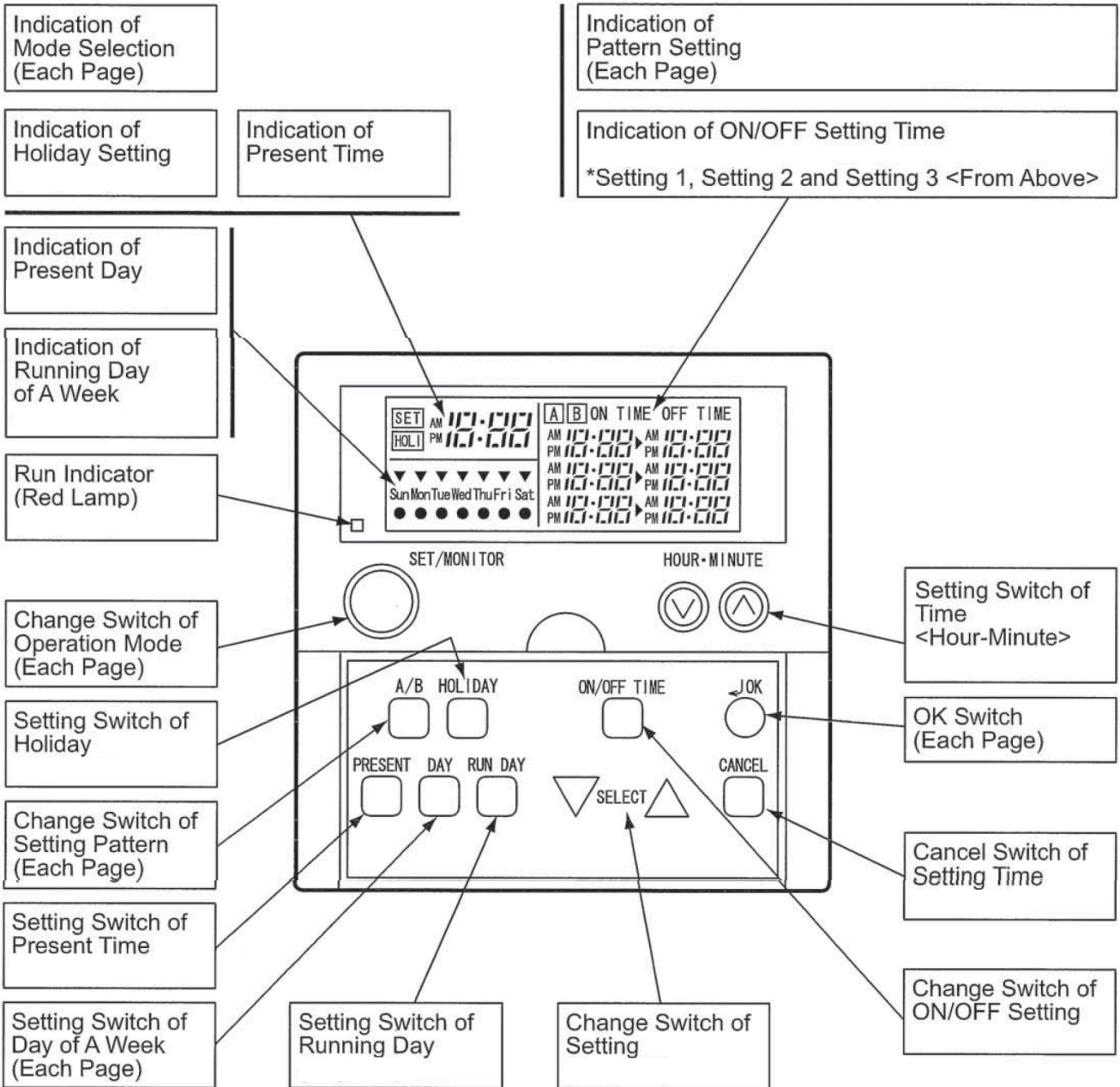
ATTENTION:

- A. When using with the remote control switch HYXE-A01H or HYJE-D02H together, the first setting after the test running is not available in the following cases.
 - When the first setting after the test running (1) is ON time.
 - When the first setting after the test running (2) is OFF time.
- B. When the "RUN" lamp of the control timer flickers, and there is a failure in transmission. In this case, check for the condition of wiring and the setting of the dip switch.

6. Switch Names and Functions

Liquid Crystal Display Selection

(The figure below shows all the indications for reference.)
 (The actual display during operation is different.)

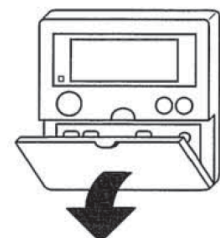


Operation Switch Selection

(The above figure shows the control timer with the cover opened.)

- The present time and the ON/OFF setting time are indicated by 12 hour units (AM0:00-11:59, PM0:00-11:59).

When opening the cover, pull the cover toward the arrow direction.



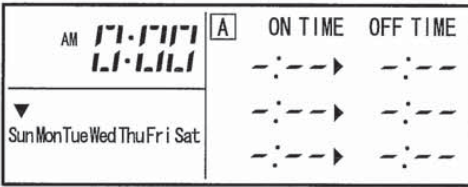
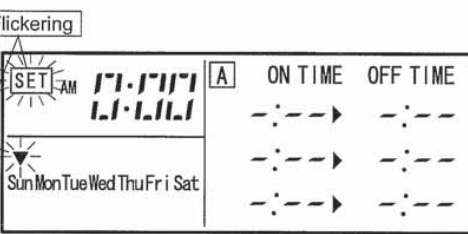
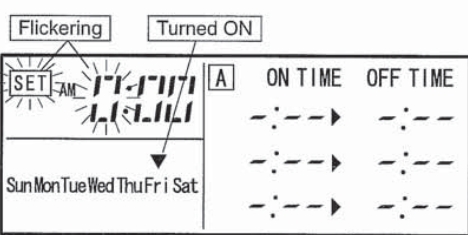
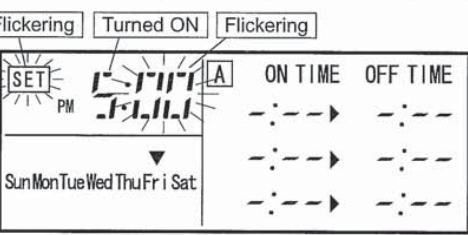
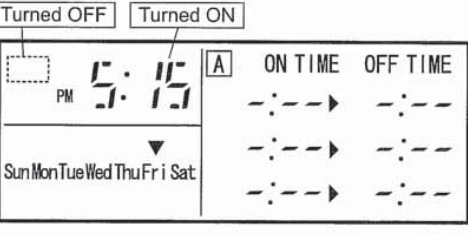
7. Operation Procedure

A. Setting Present Day and Present Time

ATTENTION:

- A. During the setting mode or the timer pause mode, the setting of the present time is not available when depressing the "PRESENT" switch more than 3 seconds.
- B. The control timer contains the battery, therefore, the clock keeps on working for 2 weeks after the power failure. If the power failure continues for more than 2 weeks, set the present time again.

<Example> Condition / Present Day: Friday, Present Time: 5:15PM

<p>1. Supply power to the unit.</p> <p>ATTENTION:</p> <p>(1) Supply power to the unit more than 12 hours before unit operation for compressor protection.</p> <p>(2) Do not cut off power during the term of using air conditioner.</p>	 <p>The above figure shows the case of the present time at AM 0:00 on Sunday. (When the power is turned ON, the present time is not set.)</p>
<p>2. Depress the "PRESENT" switch for more than 3 seconds. The display is changed to the present time setting mode, and the "SET" indicator and the "▼" mark are flickered.</p>	 <p>The above figure shows the case that ON time and OFF time are not set.</p>
<p>3. Set the "▼" mark at the present day by depressing the "DAY" switch. Depress the "OK" switch after setting the present day, the "▼" mark is turned on and "hour" indication is flickered.</p>	 <p>The above figure shows the case of setting the day at "Friday".</p>
<p>4. Set "hour" indication at the present hour by depressing the "HOUR/MINUTE" switch. Depress the "OK" switch after setting the present hour, "hour" indication is turned on and "minute" indication is flickered.</p>	 <p>The above figure shows the case of setting the hour at "PM5".</p>
<p>5. Set "minute" indication at the present minute by depressing the "HOUR/MINUTE" switch. Depress the "OK" switch after setting the present minute, the present day and the present time are fixed, and the present time setting mode is changed to the monitor mode. The "minute" indication is turned on the "SET" indication is turned off.</p>	 <p>The above figure shows the case of setting the minute at "15".</p>

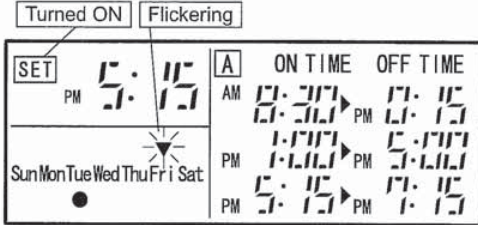
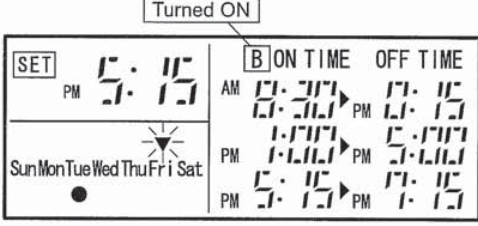
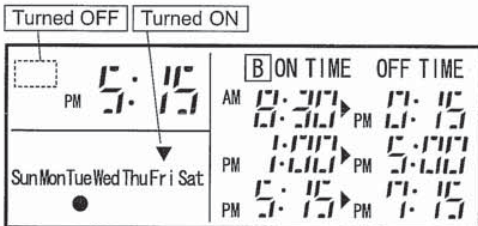
B. Changing Weekly Schedule Pattern (A or B)

There are 2 (two) patterns (A or B) set for the weekly schedule.
 Each pattern can be set with 3 (three) times ON/OFF settings for each weekly day.

<Function>

To select the pattern for setting and operating the schedule

The schedule of A or B pattern can be set for each week and changed for a season.

<p>1. Depress the "SET/MONITOR" switch. The control timer is changed to the setting mode and the "SET" indication is turned on.</p>	
<p>2. Depress the "A/B" switch. The set pattern is changed ("A" ↔ "B") by depressing the "A/B" switch.</p>	 <p>The above figure shows the case of selecting the set pattern "B".</p>
<p>3. Depress the "SET/MONITOR" switch. The "SET" mode is turned off and the setting mode is changed to the monitor mode.</p>	

ATTENTION:

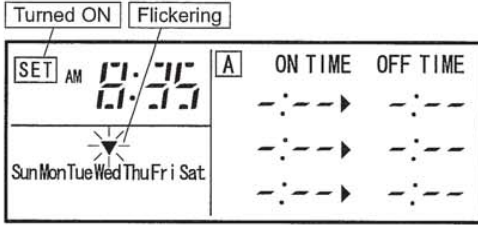
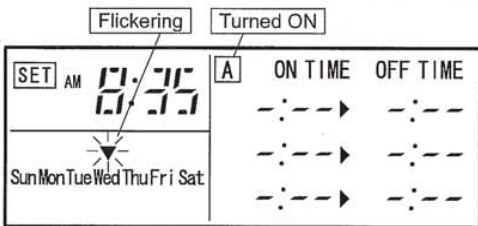
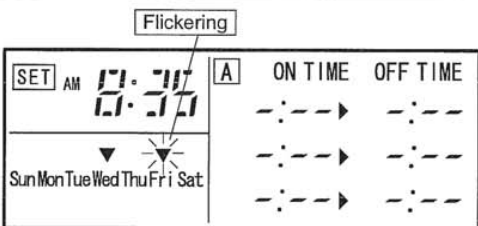
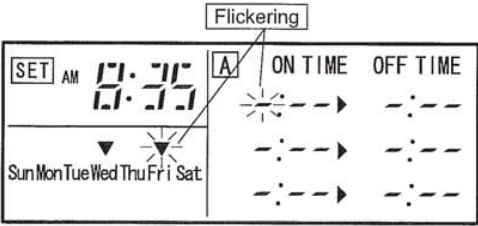
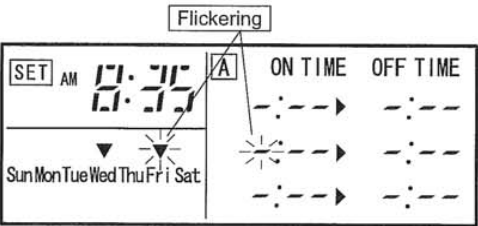
- A. In the case where the ON TIME or OFF TIME comes during the setting mode, there is no operation or stoppage. After setting, ensure to change the mode of the control timer to the monitor mode. (For more than 3 minutes without setting operation at the setting mode, the mode of the control timer is automatically changed to the monitor mode.)
- B. During the timer pause mode, the mode is not changed to the setting mode by depressing the "SET/MONITOR" switch.

C. Setting ON/OFF Time

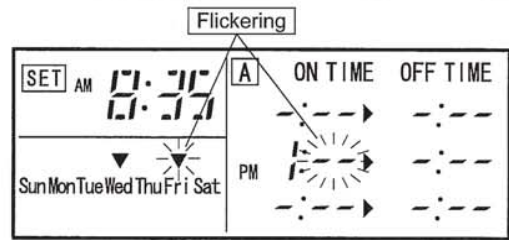
ATTENTION:

- A. In case that the remote control switch (HYXE-A01H) or the one-touch controller (HYJE-D02H) is used together, both setting of ON TIME and OFF TIME are required for setting 1, 2 and 3. (The setting of ON TIME (or OFF TIME) only is not available.)
- B. In case that the other controller is used together, the setting of ON TIME (or OFF TIME) only is available.
- C. During the timer pause mode, the mode is not changed to the setting mode by depressing the "SET/MONITOR" switch.

<Example> "A" Pattern, Friday, Setting 2, PM1:00 (ON) / PM5:00 (OFF)

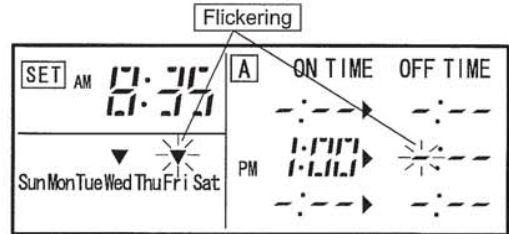
<p>1. Depress the "SET/MONITOR" switch. The control timer is changed to the setting mode, the "SET" indication is turned on the the "▼" mark are flickered.</p>	 <p>The above figure shows the case of changing to the setting mode.</p>
<p>2. Select "A" or "B" pattern by depressing the "A/B" switch. Refer to "B. Changing Weekly Schedule Pattern A or B" for changing the pattern.</p>	 <p>The above figure shows the case of selecting the set pattern "A".</p>
<p>3. Select the weekly day to set ON/OFF control by depressing the "DAY" switch. By depressing the "DAY" switch, the flickering "▼" mark moves in order of "Sun → Mon → ... → Sat". Depressing the "DAY" switch after "Sat", all the "▼" marks (from "Sun" to "Sat") are flickered. In this case, the setting is the same for all days of a week. Depressing the "DAY" switch once again, the flickering "▼" mark returns to the position of "Sun".</p>	 <p>The above figure shows the case of selecting the day "Friday". The flickering "▼" mark of the present day is turned ON. (In case of selecting the present day, the "▼" mark flickers.)</p>
<p>4. Depress the "ON/OFF TIME" switch. The Timer is changed to the ON/OFF time setting mode and the "hour" indication of ON TIME is flickered.</p>	 <p>The above figure shows the case of changing to the ON/OFF time setting mode.</p>
<p>5. Select the setting 1, 2 or 3 by depressing the "▽SELECT△" switch. By depressing the "▽SELECT△" switch, the "hour" indication moves flickering.</p>	 <p>The above figure shows the case of selecting the setting 2.</p>

6. Set the "hour" indication of ON TIME by depressing the "HOUR/MINUTE" switch.
After setting the "hour" indication, depress the "OK" switch and the "minute" indication of ON TIME to be set is flickered.



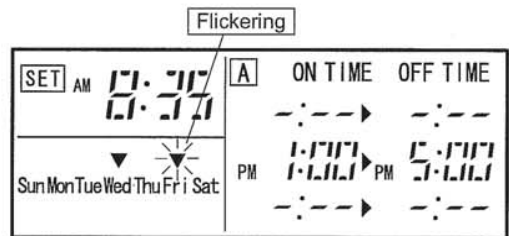
The above figure shows the case of setting the hour "PM 1".

7. Set the "minute" indication of ON TIME by depressing the "HOUR/MINUTE" switch.
After setting the "minute" indication, depress the "OK" switch and the "hour" indication of OFF TIME to be set is flickered.



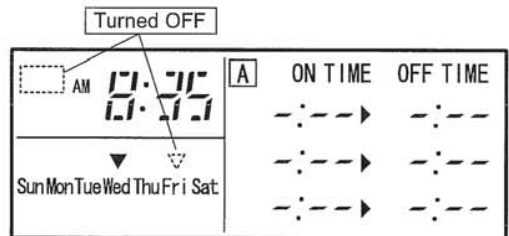
The above figure shows the case of setting the time "PM 1:00".

8. Set the time of "OFF TIME" by the same procedure of setting the time "ON TIME".
After setting the time of "OFF TIME", the flickering indication of "OFF TIME" is turned on and the ON/OFF time setting mode is changed to the setting mode.



The above figure shows the case of setting the OFF time at "PM 5:00".

9. Depressing the "SET/MONITOR" switch.
The "SET" indication is turned off and the control timer is changed to the monitor mode.



The above figure shows the case of indicating the setting condition of the present day.

ATTENTION:

- A. Depressing the "CANCEL" switch when setting ON time (procedure 6) or OFF time (procedure 8), the indication of ON TIME or OFF TIME is changed "- : -". Depressing the "OK" switch in this condition, the setting is canceled.
- B. In case of using the Timer together with other controller than the remote control switch (HYXE-A01H) and the central station (HYJE-D02H), the setting of ON time and OFF time is required.
- C. Depending on the controller to be used with, it may take approximately 15 seconds that the air conditioner starts (or stops) operation after the ON time (or OFF time).

D. Setting Running Day

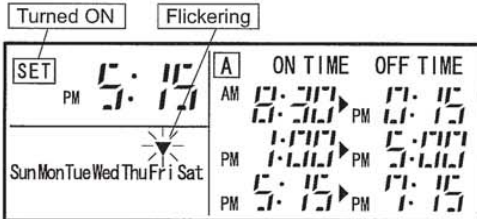
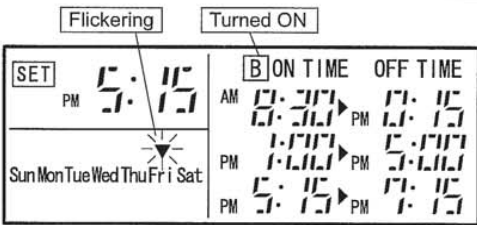
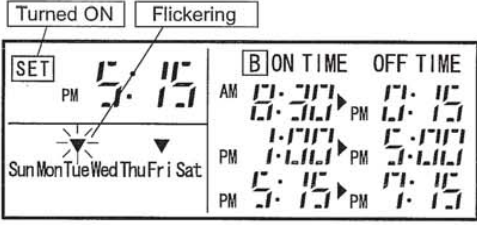
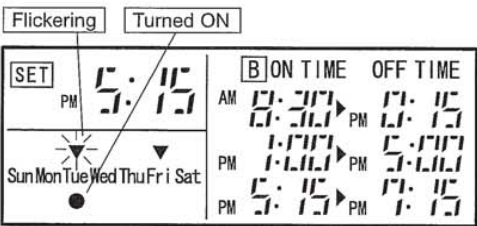
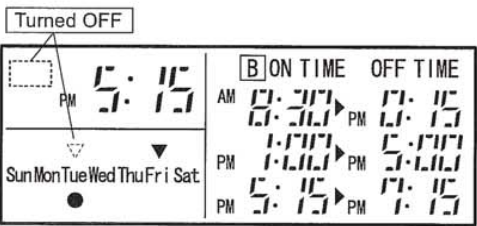
<Function>

To set the day for actual operation of the running schedule set in pages 10 and 11. (Though the ON time and OFF time are set, the schedule operation is not available unless the running day is set.)

ATTENTION:

- A. In case where the central station (HYJE-D02H) is used together, the group setting for schedule operation is required by the central station. Refer to the manual of the central station for details.
- B. During the timer pause mode, the mode is not changed to the setting mode by depressing the "SET/MONITOR" switch.

<Example> "B" Pattern, Tuesday

<p>1. Depress the "SET/MONITOR" switch. The Timer is changed to the setting mode, the "SET" indication is turned on and the "▼" mark is flickered.</p>	
<p>2. Select "A" or "B" pattern by depressing the "A/B" switch.</p>	 <p>The above figure shows the case of selecting the set pattern "B".</p>
<p>3. Select the running day by depressing the "DAY" switch. Refer to 3. (Page 10) of "C. Setting ON/OFF Time" for the indication of the "▼" mark.</p>	 <p>The above figure shows the case of selecting the day "Tuesday".</p>
<p>4. Depress the "RUN DAY" switch, the selected day is set as the running day and the "●" mark is turned on at the selected day. (By depressing the "RUN DAY" switch again, the running day setting is canceled and the "●" mark is turned off.)</p>	 <p>The above figure shows the case of selecting the day "Tuesday".</p>
<p>5. Depress the "SET/MONITOR" switch. The "SET" indication is turned off and the Timer is changed to the monitor mode.</p>	

E. Setting Holiday

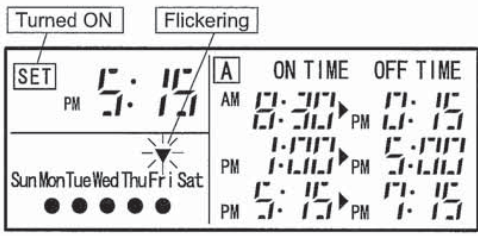
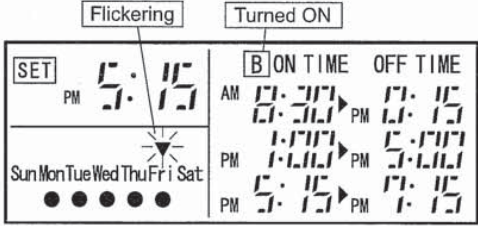
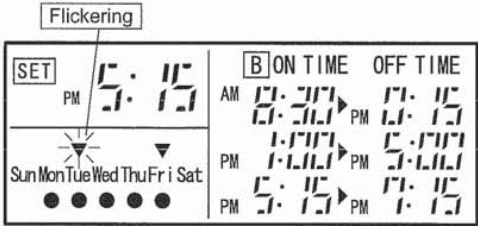
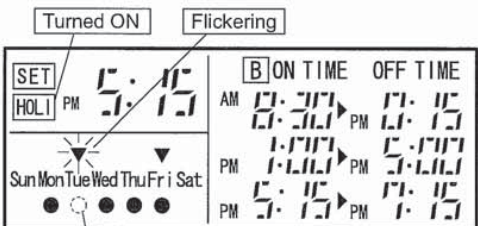
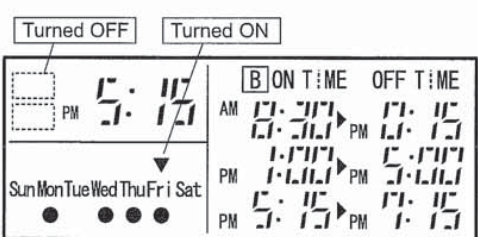
<Function>

To cancel the running schedule temporarily

The schedule operation is canceled only once at the day set as "holiday". After that, the schedule operation is available again.

This function is used in case that there are any irregular holidays.

<Example> "B" Pattern, Tuesday

<p>1. Depress the "SET/MONITOR" switch. The Timer is changed to the setting mode, the "SET" indication is turned on and the "▼" mark is flickered.</p>	
<p>2. Select "A" or "B" pattern by depressing the "A/B" switch.</p>	 <p>The above figure shows the case of selecting the set pattern "B".</p>
<p>3. Select the day to be set as "holiday" by depressing the "DAY" switch. Refer to 3. (Page 10) of "C. Setting ON/OFF Time" for the indication of the "▼" mark.</p>	 <p>The above figure shows the case of selecting the day "Tuesday".</p>
<p>4. Depress the "HOLIDAY" switch, the "HOLI" indication is turned on and the selected day is set as "holiday". In case that the selected day is not set as running day (the "●" mark is turned off), the holiday setting is not available for the day. (In case that all days of a week are selected, only the running day is set as "holiday".) (By depressing the "HOLIDAY" switch again, the holiday setting is canceled.)</p>	 <p>Turned OFF</p>
<p>5. Depress the "SET/MONITOR" switch. The "SET" indication is turned off and the Timer is changed to the monitor mode.</p>	

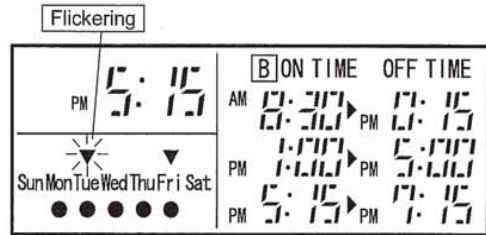
ATTENTION:

A. In case of setting the present day as "holiday", the "holiday" setting is available from that time and the schedule operation is canceled until the next day. In that case, the same day after a week is not "holiday".

B. During the timer pause mode, the mode is not changed to the setting mode by depressing the "SET/MONITOR" switch.

F. Checking Contents of Setting

1. Depress the "DAY" switch at the monitor mode (when the "SET" indication is turned off), the "▼" mark moves and the setting contents of the day with the "▼" mark is indicated.



The above figure shows the case of selecting the day "Tuesday".

ATTENTION:

During the timer pause mode, checking the contents of setting cannot be performed.

G. Setting Timer Pause

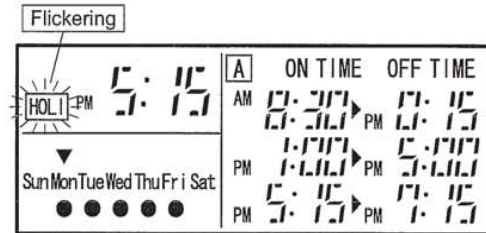
<Function>

This function is for canceling the running schedule.

During the timer pause setting, the ON time setting is invalid and the schedule operation is canceled.

This function is used in case that there are any long-term holidays.

1. Depress the "HOLIDAY" switch for 3 seconds during the monitor mode.
The mode of the control timer is changed to the timer pause mode, the "HOLI" indication is flickered.



The above figure shows the case of selecting the timer pause mode.

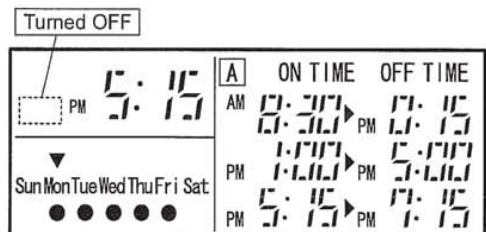
CAUTION

- The timer pause function is not available for the day when the setting is performed. This function is available from the next day and continued until the cancellation of this setting. In this mode, in case of operated by the remote control switch () or the central station (), the unit operation is stopped according to OFF time setting. HYXE-A01H HYJE-D02H
- During the setting mode, the timer pause setting is not available by depressing "HOLIDAY" switch for more than 3 seconds.
- During the timer pause mode, the input of only the "HOLIDAY" switch is valid. To input from other switches for setting, the timer pause mode is required to be canceled.
- When the timer pause mode and the holiday setting day is overlapped, the priority is given to the holiday setting.

Cancellation for Timer Pause Mode

Depress the "HOLIDAY" switch for 3 seconds during the timer pause mode.

The control timer is changed to the monitor mode, the "HOLI" indication turns OFF.



The above figure shows the case of returning to the monitor mode.

ATTENTION:

- A. After cancellation of the timer pause mode, the schedule running is performed by judging ON/OFF time setting.
- B. In the case where the day, when the timer pause mode is canceled, is set as holiday, the state of "HOLI" indication is changed from flickering to turning ON.

⚠ CAUTION

- The control timer has a built-in back-up battery and the clock function is available within 2 weeks in case of the power failure.
If the power failure continues more than 2 weeks, set the present time again.
- The RUN indicator is turned on at ON time and turned off at OFF time.
In case that the indoor unit operation is started or stopped by the remote control switch or the central station used together with the Timer, the RUN indicator is not changed.
- The flickering of the RUN indicator shows the abnormal condition of the Timer.
Check to ensure that the wiring connection and the setting of dip switches are correct.
In case that the RUN indicator is still flickered after checking, contact your distributor or dealer of Hisense .
- It may take approximately 15 seconds to start (or stop) operation after ON time (or OFF time) depending on the controller used together.
- The operation can not be started or stopped during the setting mode condition. After the completion of setting, set the Timer at the monitor mode. (After 3 minutes with leaving the Timer at the setting mode, the Timer at the monitor mode automatically.)
- The timer pause function is not available for the day when the setting is performed. This function is available from the next day and continued until the cancellation of the setting. In this mode, in case of operation by the remote control switch (HYXE-A01H) or the central station (HYJE-D02H), the unit operation is stopped according to OFF time setting.
- In case that the Timer is used with the central station (HYJE-D02H), the setting by the central station is required. Refer to the "Installation & Operation Manual of Central Station" for details.
- In the case where the ON time or OFF time is passed during power failure, the timer setting is not available. After the recovery of the power supply, the air conditioner is stopped. However, depending on the model and the setting of the controller to be used with, the control of those controllers may have the priority. Consult your distributor or dealer of Hisense for details.

Hisense Installation & Operation Manual

Central Station (Model: HYJE - D02H)

IMPORTANT:

READ AND UNDERSTAND THIS MANUAL BEFORE USING THIS CENTRAL STATION.
KEEP THIS MANUAL FOR FUTURE REFERENCE.

IMPORTANT NOTICE:

- No part of this manual may be reproduced without written permission.
- Signal words (DANGER, WARNING and CAUTION) are used to identify levels of hazard seriousness. Definitions of identifying hazard levels are provided below with their respective signal words.

▲ DANGER : Immediate hazards which WILL result in severe personal injury or death.

▲ WARNING : Hazards or unsafe practices which COULD result in severe personal injury or death.

▲ CAUTION : Hazards or unsafe practices which COULD result in minor personal injury or product or property damage.

NOTE : Useful information for operation and/or maintenance.

1. Safety Summary

▲ DANGER

- DO NOT pour water into the central station. This product is equipped with electrical parts. If poured, it will cause a serious electrical shock.

▲ WARNING

- DO NOT perform installation work and electrical wiring connection by yourself. Contact your distributor or dealer of Hisense and ask them for installation work and electrical wiring by service person.
- When performing the insulation test, withstand voltage test and so on, ensure to remove the FG terminal connection of TB1. If performing aforementioned test with the FG terminal connected, the malfunction will occur.
- DO NOT turn OFF the power supply within 3 minutes after operation by the controller. It may cause the malfunction.

▲ CAUTION

- DO NOT install the indoor unit, outdoor unit, central station and cable at such places as:
 1. where there is oil vapor and the oil is dispersed
 2. where the hot springs are near (in a sulfuric environment)
 3. where generation, flowing, staying or leaking of flammable gas is detected
 4. where the sea is near (in the saline environment)
 5. an acid or alkaline environment
- DO NOT install the indoor unit, outdoor unit, central station and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment. In case that the central station is installed in a place where there is electromagnetic wave radiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.
- In case that there is electric noise at the power source for the indoor unit, provide a noise filter.

2. Installation Work

[2.1 Selection of Installation Place]

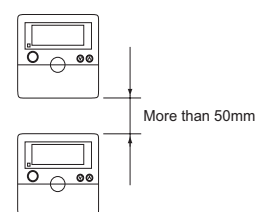
- 1) Select a suitable place for handling and determine the installation place of the controller with the customer's acceptance. Do not install the central station at such place as;
 - where children can touch
 - where the air from the air conditioner is directly discharged

[2.2 Before Installation]

- This packing contains the following parts ([A] and [B]);
 - [A] Central Station (Q'ty: 1),
 - [B] Screw <M4 x 16L> (Q'ty: 2, for Fixing the Holding Bracket onto the Wall)

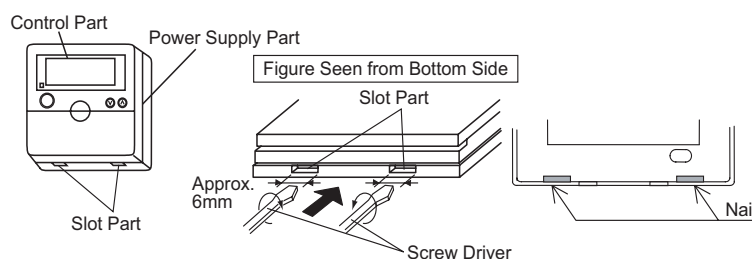
[2.3 Installation Place]

- 1) In case of installing the central stations in vertical direction, keep a distance more than 50mm between the central stations vertically. If the distance is insufficient, the front cover of the central station can not open wide enough.

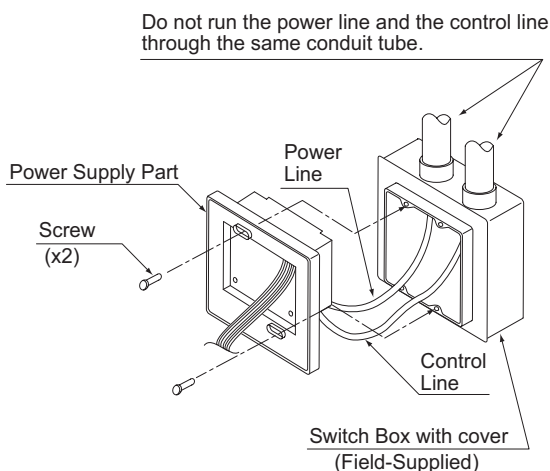


[2.4 Installation Procedures]

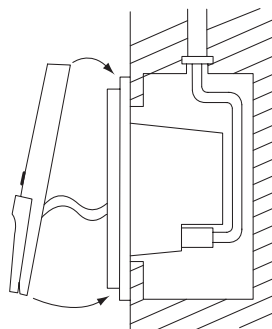
- 1) Insert the edge of the screwdriver into the slot parts at the bottom of the case, push and turn the screwdriver and remove the control part from the power supply part. Do not insert the screwdriver into the nail near the slot part, or the nail will be damaged.



□2) Attach the power supply part to the switch box.



□3) Attach the control part onto the power supply part. At first, attach the upper side, and then the lower side.



CAUTION

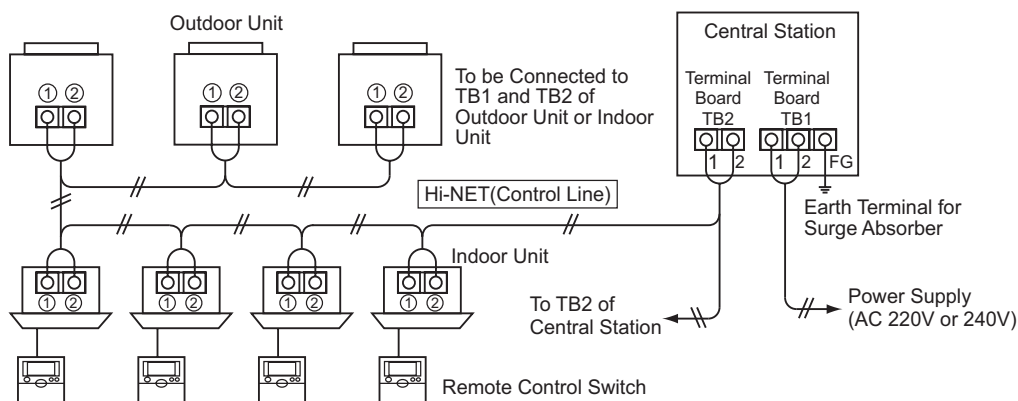
Follow the national regulations for the right assembly of the HYJE-D02H in the wall.

3. Electrical Wiring

□1) Electrical Wiring

Up to 8 Central Stations can be connected to the Hi-NET (Control Line).

Use the 2-core cable of 0.75-1.25mm² (Model: VCTF, VCT, CVV, MVVS, CVVS, VVR, VVF) or the 2-core twist pair cable (Model: Equivalent of KPEV, KPEV-S) (Max. 1,000m) for the transmission cable for the central station, for the outdoor unit and between indoor units (DC5V). The maximum total length of the cables shall be within 1,000m.



□2) Setting of Dip Switch

Set the dip switches as shown below.

Address setting is required when the central station (Max. 8 units) is connected on Hi-NET(Control Line). (The setting of dip switches is all OFF before shipping.)

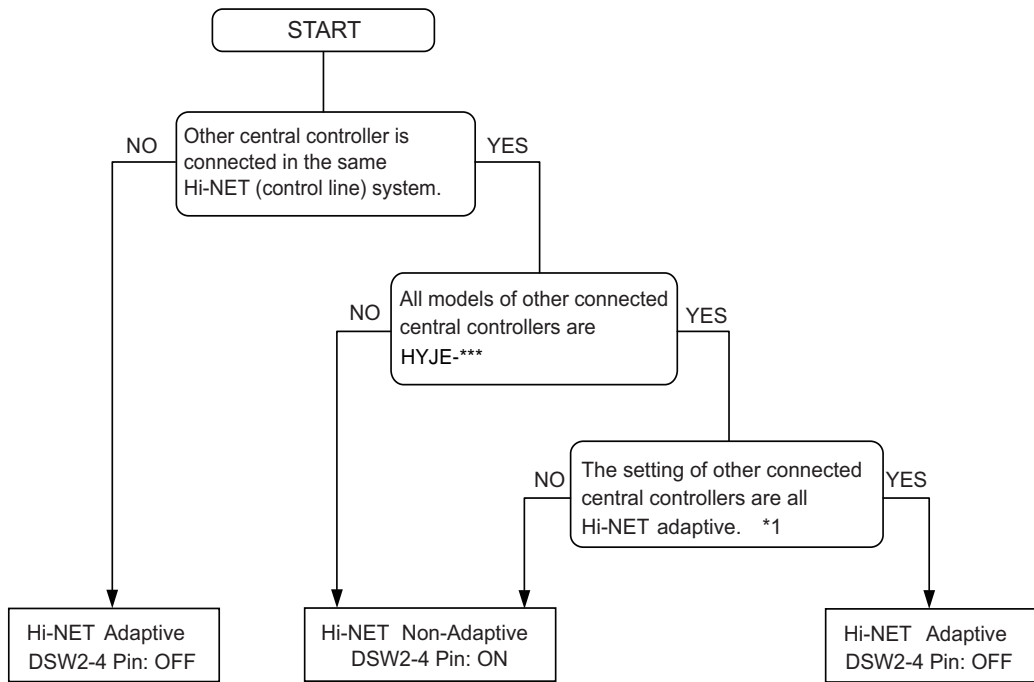
	Pin No.	Contents	Setting of DSW		Remarks
			OFF	ON	
DSW1	1	For Address Setting	Refer to the description as shown page 3.		For connecting plural central stations with Hi-NET (control line), the address setting for each central station is required.
	2				
	3				
DSW2	1	External Input Function Changeover Operation Stoppage Level / Pulse	Level	Pulse	
	2	External Input Function Changeover Demand / Emergency Stop	Demand	Emergency Stoppage	- Available only when the DSW2-1 pin is OFF. - Pulse Stop when the DSW2-1 pin is ON.
	3	In Reserve	-	-	Set OFF
	4	Hi-NET Adaptive	Adaptive	Non-Adaptive	Set according to the item "Judgment of Hi-NET Adaptive" in page 3.

● DSW1 (Address Setting)

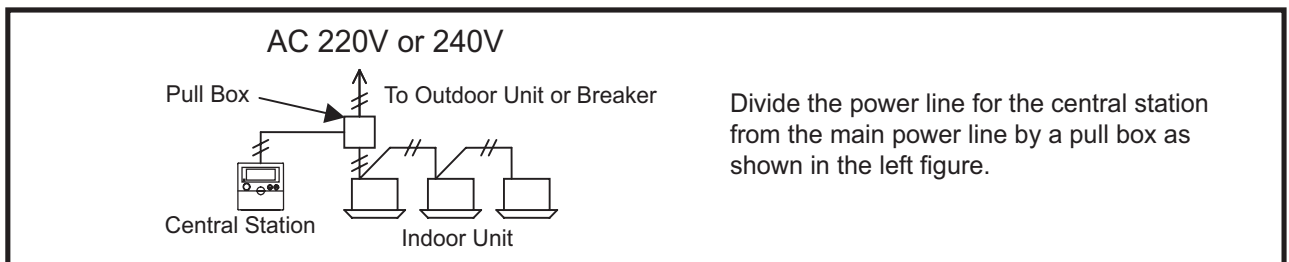
Address	0	1	2	3	4	5	6	7
Setting of DSW1	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4

● Judgment of Hi-NET Adaptive

When installing the central station, check whether the system is Hi-NET adaptive or non-adaptive, and set the DSW2-4 pin depending on the checking results.

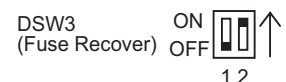


*1: Refer to the installation manual of other central controllers for the setting contents.



CAUTION

- Check to ensure that the wiring is correct. Incorrect wiring may cause malfunction of the central station.
- Turn OFF the power supply of the air conditioner and the central station when performing the wiring work. If the wiring work is performed while the power supply of the central station is being supplied, it may cause malfunction of the central station.
- DO NOT run all the transmission cable for the central station along the power line and other transmission cables, or malfunction may occur due to the noise, etc. If the transmission cable for the central station is required to be run along the power line and other transmission cables, separate the cable more than 30cm away from other cables, or run the cable through a metal tube and earth the tube.
- In case of applying high voltage to the TB2, the fuse on the PCB is blown out. In such a case, firstly correct the wiring to TB1, and then set No.2 pin ON.
- Connect the shield tube of cable to earth.



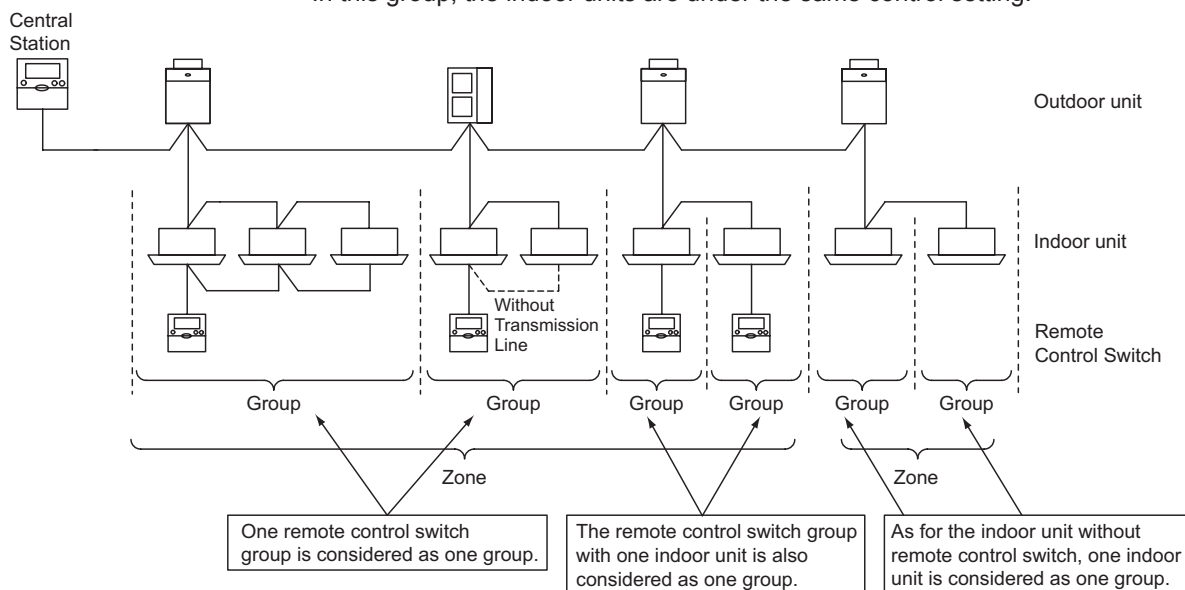
4. Group Setting

■ Group and Zone

Group.....Minimum Unit for Operation of Central Station
 One remote control switch group is considered as one group under the same control.
 The central station can control up to 64 groups (4 zones x 16 groups).

ZoneOperation Unit with Plural Groups
 Up to 16 groups as maximum can be set in one zone. The central station can control up to 4 zones.

Remote Control Switch Group.....Unit of Plural Indoor Units (Max. 16 units) Connected with Transmission Line of Remote Control Switch
 In this group, the indoor units are under the same control setting.



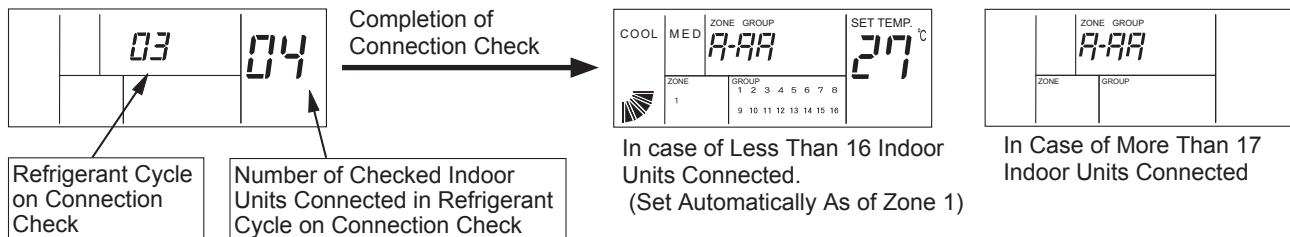
⚠ CAUTION

When setting the remote control switch group without transmission line between indoor units, the indoor unit connected with the remote control switch shall be set as master unit. If the setting of the master unit is wrong, the group can not be controlled with the central station.

■ Check for Connecting Condition of Air Conditioner

After completion of electrical wiring work and test running of the air conditioner, turn ON the power supply of the central station. (Ensure to perform the test running of the air conditioner before turning ON the power supply of the central station.)

In case that group setting is not performed, the indication of the central station is as shown below for checking indoor unit connection after turning ON the power supply.



NOTES:

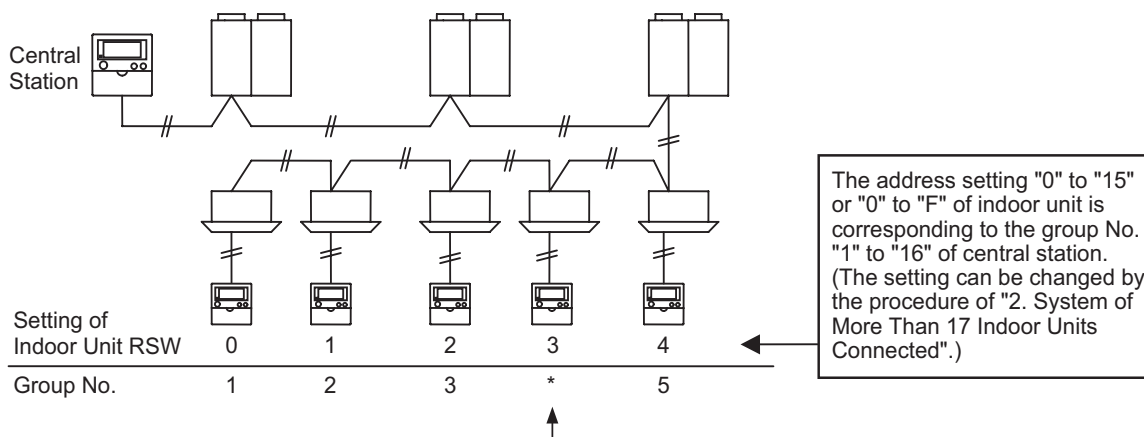
- (1) The checked number of connected indoor units may be more than the actual number according to the condition of transmission.
- (2) During the connection check, the indications of group No. and setting temperature may be "-" temporarily.
- (3) When the "63" alarm is indicated, the setting of Hi-NET adaptive is wrong. Check for the setting of the central station and other central controller used together.

■ Group Setting Procedure

- The group setting consists of the master unit setting and the slave unit setting. The indoor unit, which is connected directly to the remote control switch, is set as the master unit, and the indoor unit connected with the transmission line is set as the slave unit.
- Without the remote control switch, the control by the remote control switch group is not available. Therefore, in this case, one indoor unit is set as one group. (Only the master unit is set without the slave unit.)
- When setting the remote control switch group without transmission line between indoor units, the indoor unit connected with the remote control switch shall be set as master unit.
- When using the remote control switch (HYXE-A01H) or receiver kit (HYRE-V01H), after the setting of master unit, the central station automatically set the slave unit. Check for the setting state by the slave unit setting mode.

Case 1: System of Less Than 16 Indoor Units Connected, Refrigerant System Address and Indoor Unit Address

The group is automatically set as zone No. 1 by the indoor unit address regardless of the refrigerant cycle address. Set the indoor unit address without duplication of address.



•When using the remote control switch (HYXE-A01H) or the receiver kit (HYRE-V01H), the indoor units are automatically recognized as the slave unit of the indoor unit #2 and set to the group 3. (The setting of the slave unit is not required. However, the contents of the setting should be checked.)

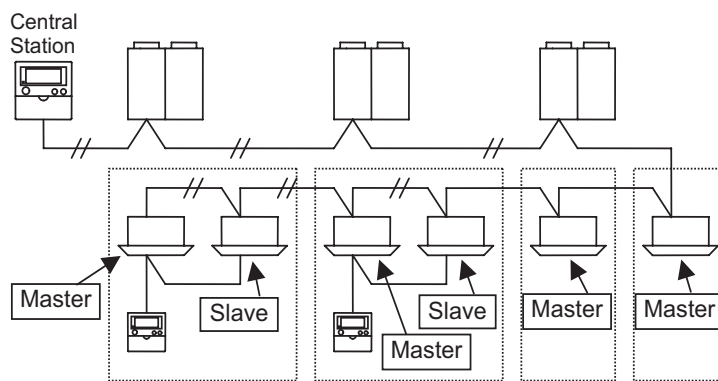
•When using other controllers than the described above, the indoor unit can not be recognized as the slave unit automatically, and set as the master unit of group 5. In this case change the setting to the slave unit of the group 3 according to the above "Group Setting Procedure".

Case 2: System of More Than 17 Indoor Unit Connected

In this case, the group setting by central station is required. Group setting is for master unit (directly connected to remote control switch) and slave unit (connected by extension cable).

In case that the remote control switch is not connected, the group setting by remote control switch is not available and only one master unit is controlled as one group.

In case of up to 16 indoor units connected, the group setting is automatically performed as described in "1. System of Less Than 16 Indoor Units Connected, Refrigerant System Address and Indoor Unit Address". In this case, correct the group setting by the next procedure.



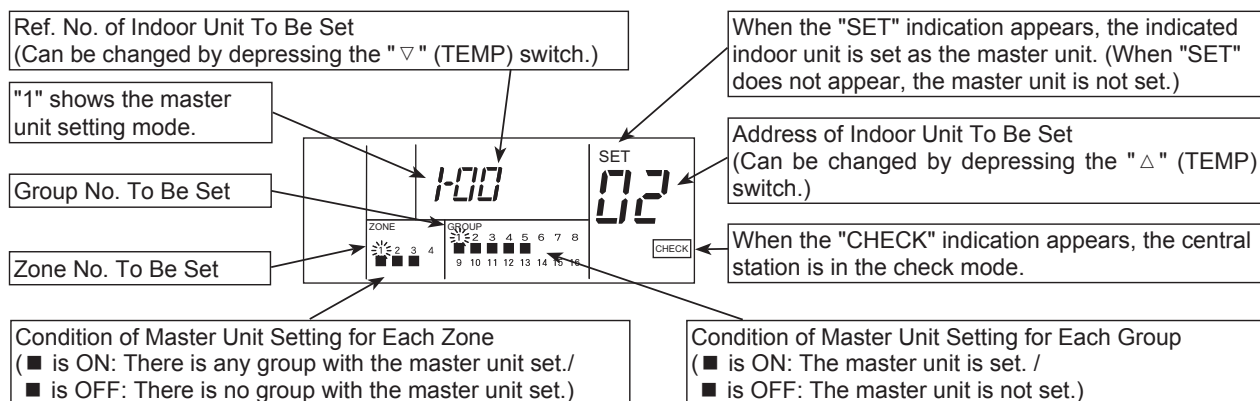
Refrigerant No.	1	1	2	2	3	3
Indoor Unit RSW Setting	0	1	0	1	0	1
Group No.	1		2		3	4

4.1 Setting of Master Unit

(1) Indication of Master Unit Setting Mode

When the central station is changed to the master unit setting mode, the LCD indication on the central station is as shown below. The indication of the group to be set is flickered. The refrigerant cycle No. (hereafter called "Ref. No.") and the indoor unit address (hereafter called "I.U. Add.") indicates the address of the indoor unit which is set as the master unit of the group to be set. The "■" indication of group flickers in case that the master unit of the group is set. When the "SET" indication appears, the indoor unit indicated on LCD is set as the master unit. In case that the master unit is not set, "-" is indicated at Ref. No. and I.U. Add., and the "SET" indication does not appear.

*When there is one or more group with indoor unit set as master unit in the zone, the zone indication "■" turns ON.

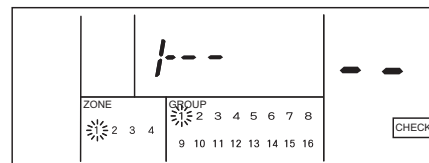


The above figure shows that the indoor unit of Ref. No. "00" and I.U. Add. "02" is set as the master unit for Group 1 of Zone 1.

(2) Procedure of Master Unit Setting

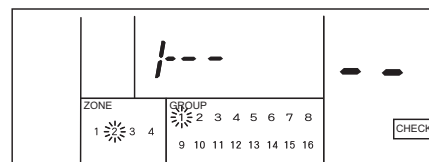
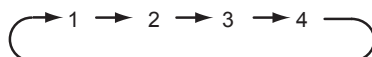
a. Screen Change for Master Unit Setting

Keep depressing the "CHECK" switch for 3 seconds during all the indoor unit is stopped (with "RUN" indicator OFF). The "CHECK" indicator turns ON, and it shows the state is changed to the CHECK mode. In addition, "1" (master unit setting mode) is turns ON at the 7-segment indicator for checking.



b. Select Zone to Be Set

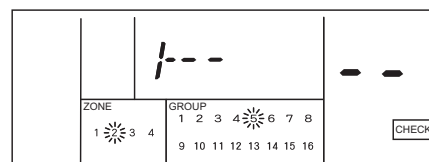
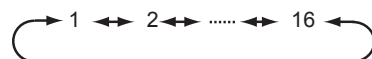
Depress the "ZONE" switch, and the flickering indication of zone No. is changed in order as shown below.



The above figure shows the case of selecting Zone "2".

c. Select of Group No. To Be Set

Select the group to be set by depressing the "GROUP" switch. The flickering indication of group No. is moved in order as shown below every time the "GROUP" switch depressed.

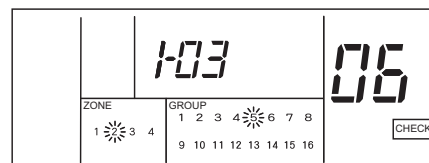
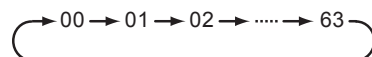


The above figure shows the case of selecting Zone "2" and Group "5".

When the main unit of the selected group is already set, the Ref. No. and I.U. Add. of the main unit already set are indicated and the "SET" indication appears.

d. Selection of Indoor Unit To Be Set

Select the refrigerant system address and indoor unit address to set. The refrigerant system address is changed by depressing "▽" (TEMP) switch and the indoor unit address is changed by depressing "△" (TEMP) switch in order as shown below. In this case, the switch is kept depressing, and the indication of the refrigerant system address or the indoor unit address is fast-forwarded.



The above figure shows the case of selecting Ref. No. "3" and I. U. Add. "6".

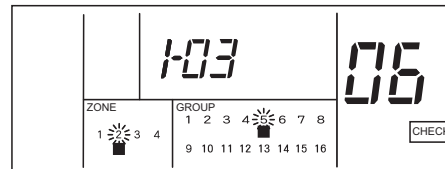
ATTENTION:

- A. When the indication of Ref. No. is "- -", the indication of I.U. Add. is also "- -". In such a case, I.U. Add. can not be changed although the "△" (TEMP) switch is depressed.
- B. Ref. No. with no indoor unit connected and I.U. Add. not connected are not indicated.
- C. The indoor unit already set as the master unit is not indicated.

e. Setting Procedure

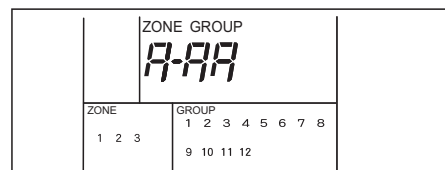
Depress the "RUN/STOP" switch after selecting indoor unit, the indicated unit is set as the master unit, the "■" and "SET" the indicator appear.

The "■" indicator of zone turns ON when there is one or more group with the master unit set.



f. Perform the master unit setting procedure b. to e. for each group and zone.

g. After completion of the master unit setting, change the mode to the standard state by depressing "RESET" switch.



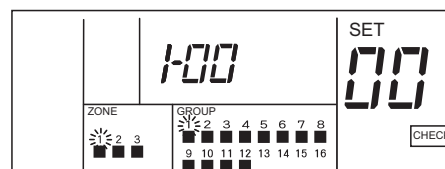
CAUTION

- When there is any group in operation (with "RUN" indicator ON), the "CHECK" mode is not available.
- Only one indoor unit can be set as the master unit in one group. Other indoor unit can not be set as the master unit for the group with the master unit set already. For setting the master unit as the master unit for another group, cancel the present master unit setting and perform the setting for another group.
- In case that there are indoor units with auto-louver and indoor units without auto-louver in the same group, set the indoor unit with auto-louver as the master unit. If the indoor unit without auto-louver is set as the master unit, the auto-louver setting is not available for all the units of the group.
- When setting the remote control switch group without transmission line between indoor units, the indoor unit connected with the remote control switch shall be set as master unit.

(3) Cancellation of Master Unit Setting

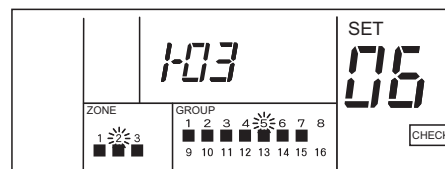
a. Screen Change for Cancellation of Master Unit Setting

Keep depressing the "CHECK" switch for 3 seconds during all the indoor unit is stopped (with "RUN" indicator OFF). The "CHECK" indicator turns ON, and it shows the state is changed to the CHECK mode. And "1" (master unit setting mode) turns ON at the 7-segment indicator for checking.



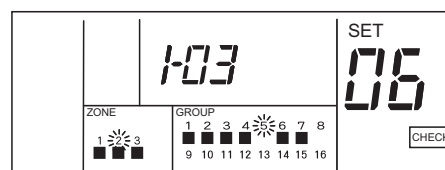
b. Select of Zone To Be Canceled

Depress the "ZONE" switch and the "GROUP" V Λ switch, and select the zone and the group to cancel.



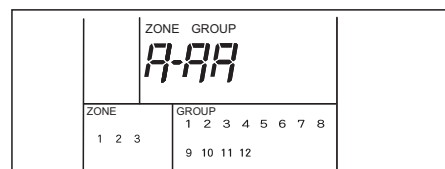
c. Cancel the slave unit setting.

Depress the "RUN/STOP" switch and the master unit is canceled. The "SET" indicator and the "■" indicators of group turn OFF. The "■" indicators of zone turns OFF when there is one or more group with the master unit set.



d. Perform the cancellation of master unit setting procedure b. and c. for each zone and group.

e. After completion of canceling the master unit setting, change the mode to the standard state by depressing "RESET" switch.

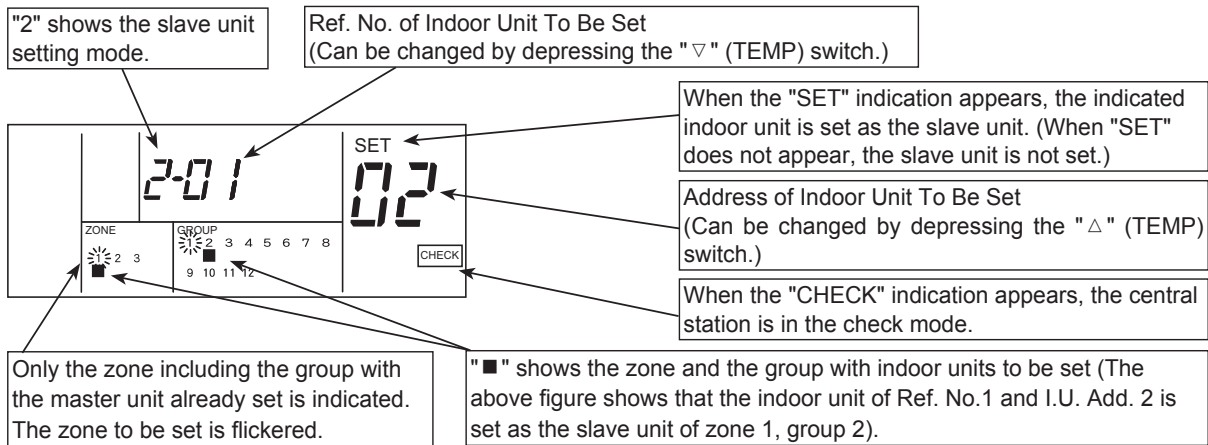


4.2 Setting of Slave Unit

When using the remote control switch (HYXE-A01H) or receiver kit (HYRE-V01H), after the setting of master unit, the central station automatically set the slave unit. Check for the setting state by the slave unit setting mode.

(1) Indication of Slave Unit Setting Mode

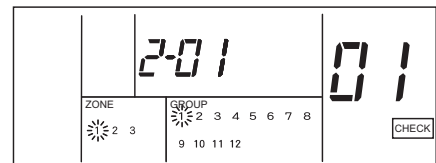
When the central station is changed to the slave unit setting mode, the LCD indication on the central station is as shown below. The indication of the setting target zone and the group to be set is flickered. The Ref. No. and I.U. Add. indicates the address of the indoor unit with the smallest address among the slave units of the group to be set. The "■" indication of zone and group flickers in case that the slave units are already set. In case that the slave units are not set, "-" is indicated at Ref. No. and I.U. Add.



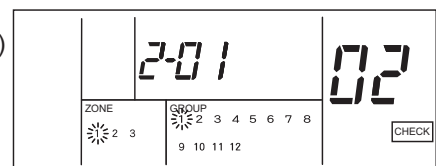
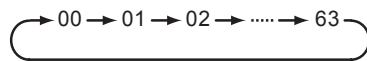
(2) Procedure of Slave Unit Setting

a. Screen Change for Slave Unit Setting.

Keep depressing the "CHECK" switch for 3 seconds during all the indoor unit is stopped (with "RUN" indicator OFF). The "CHECK" indicator turns ON, and it shows the state is changed to the CHECK mode. When "1" (master unit setting mode) is turns ON at the 7-segment indicator for checking, depress the "CHECK" switch again, and then the checking indication is changed to "2" (slave unit setting mode).



b. Select the refrigerant system address and indoor unit address to set. The refrigerant system address is changed by depressing "▽" (TEMP) switch and the indoor unit address is changed by depressing "△" (TEMP) switch in order as shown below. In this case, the switch is kept depressing, and the indication of the refrigerant system address or the indoor unit address is fast-forwarded.



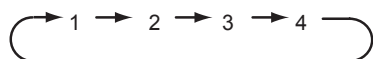
The above figure shows the case of selecting Ref. No. "1" and I.U. Add. "2".

ATTENTION:

- A. Ref. No. with no indoor unit connected and I.U. Add. not connected are not indicated.
- B. When the selected unit is already set as slave unit, the zone and the group No. indication "■" of the unit and "SET" indication appear.
- C. The indoor unit already set as the master unit is not indicated.

c. Select of Zone To Be Set.

Depress the "ZONE" switch, and the flickering indication of zone No. is changed in order as shown below.



The above figure shows the case of selecting Zone "2".

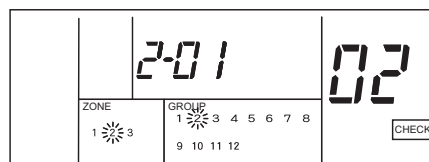
*The zone, in which there is no group with the master unit already set, is not indicated.

d. Select of Group To Be Set

Depress the "GROUP" V Λ switch, and the flickering indication of group No. is changed in order as shown below.



*The group, in which the master unit is not set, is not indicated.

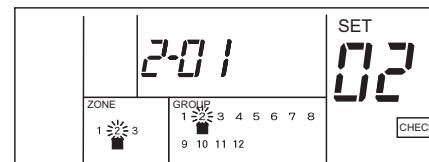


The above figure shows the case of selecting Zone "2" and Group "2".

e. Setting Procedure

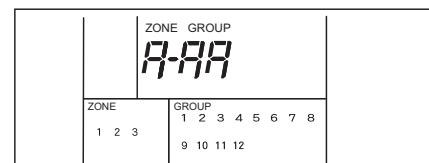
Depress the "RUN/STOP" switch after selecting zone and group, the slave unit is set.

The "SET" indicator and the "■" indicator of group turn ON.



f. Perform the slave unit setting procedure b to e for each group and zone.

g. After completion of the slave unit setting, change the mode to the standard state by depressing "RESET" switch.



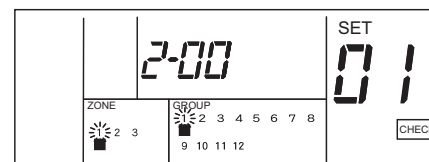
CAUTION

- Up to 15 slave units can be set in one group (Max. 16 units (including the master unit) in one group).
- For changing the setting of slave unit to another group, cancel the present slave unit setting and perform the setting for another group.
- In case that all the units are set as the master unit, the central station can not be changed to the slave unit setting mode.
- When there is any group in operation (with "RUN" indicator ON), the "CHECK" mode is not available.

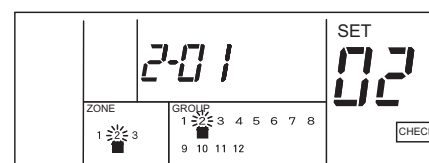
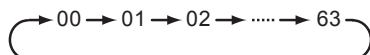
(3) Cancellation of Slave Unit Setting

a. Screen Change for Cancellation of Slave Unit Setting

Keep depressing the "CHECK" switch for 3 seconds during all the indoor unit is stopped (with "RUN" indicator OFF). The "CHECK" indicator turns ON, and it shows the state is changed to the CHECK mode. When "1" (master unit setting mode) is turns ON at the 7-segment indicator for checking, depress the "CHECK" switch again, and then the checking indication is changed to "2" (slave unit setting mode).



b. Select the refrigerant system address and indoor unit address to cancel. The refrigerant system address is changed by depressing "▽" (TEMP) switch and the indoor unit address is changed by depressing "△" (TEMP) switch in order as shown below. In this case, the switch is kept depressing, and the indication of the refrigerant system address or the indoor unit address is fast-forwarded.



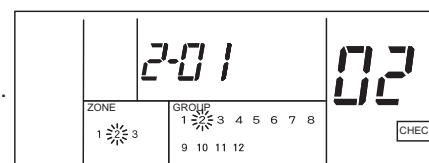
The above figure shows the case of selecting Ref. No. "1" and I.U. Add. "2".

*The Ref. No. and I.U. address of the indoor unit unconnected are not indicated.

*The Ref. No. and I.U. address of the indoor unit set as the master unit are not indicated.

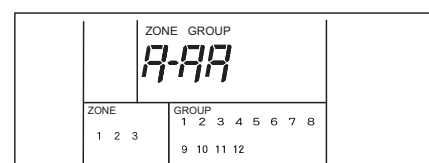
c. Cancellation of Slave Unit Address.

Depress the "RUN/STOP" switch and the slave unit is canceled. The "SET" indicator and the "■" indicators of zone and group turn ON.



d. Perform the cancellation of slave unit setting procedure b and c for each intended refrigerant system and address.

e. After completion of canceling the slave unit setting, change the mode to the standard state by depressing "RESET" switch.



5. Input / Output Function

The central station has two input functions and two output functions as shown below.

1. Simultaneous Operation / Stoppage

This function is for operating / stopping all the indoor units of the group, which is set by the central station, by the external contact signal.

2. Simultaneous Operation

This function is for operating all the indoor units of the group, which is set by the central station, by the external pulse signal.

3. Simultaneous Stoppage

This function is for stopping all the indoor units of the group, which is set by the central station, by the external pulse signal.

4. Emergency Stop Signal Connection Function

This function is for stopping all the air conditioners connected with the central station by the external emergency stop signal.

*When other central controller is used together with, even in the state of emergency stop, the RUN / STOP operation by other central controllers is available.

5. Demand Control Function

The peak-cut according to the electricity is available by the control of air conditioners with the control signal from the demand control. The group set by the central station is operated by the demand signal as follows.

	Demand Signal ON *1	Demand Signal OFF *2
Demand 1	Indoor Unit Stop (Remote Control Inhibited)	Back to the former state of operation
Demand 2 *3 *4	COOL, DRY→FAN HEAT→STOP (Remote Control Inhibited)	The setting temperature is set as follows; COOL, DRY...28°C HEAT...20°C
Demand 3 *3 *5		

*1: The control is performed every 15 seconds for the zone, which is subject to demand control, in descending order of the zone No..

*2: The control is performed every 15 seconds for the zone, which is subject to demand control, in ascending order of the zone No..

*3: During automatic cooling / heating operation, the activation of "Demand 1" is executed.

*4: For the group with the optional setting of fixing operation mode, the activation of "Demand 1" is executed.

*5: For the group with the optional setting of fixing operation mode or fixing set temperature, the activation of "Demand 1" is executed.

6. Simultaneous Operation Output

This function is for outputting signal outward in the case where there is any air conditioner in operation in the group set by the central station.

7. Simultaneous Alarm Output

This function is for outputting signal outward in the case where there is any air conditioner in abnormal condition in the group set by the central station.

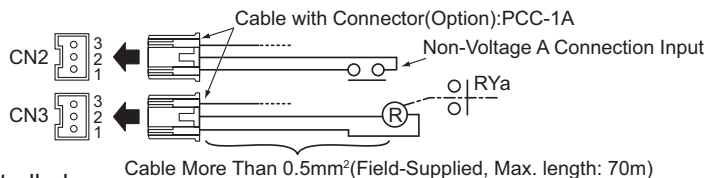
The input function is set by DSW2 as shown in the table below.

Function	DSW Pin No.				Remarks
	1	2	3	4	
Simultaneous Operation / Stoppage (Level)	OFF	*	OFF	OFF	CN2 1-2 Pin Contact Connection
Simultaneous Operation / Stoppage (Pulse)	ON	OFF	OFF	OFF	CN2 1-2 Pin Contact Connection
Emergency Stop	OFF	ON	OFF	OFF	CN2 2-3 Pin Contact Connection
Demand 1~3	OFF	OFF	OFF	OFF	CN2 2-3 Pin Contact Connection

*Both ON and OFF setting are available. Set ON or OFF by the emergency stop or the demand function.

Specifications of Required Components:

- DC12V Non-Voltage A Connection
- OMRON MY Relay
- PCC-1A



As for demand input, the group to be controlled can be set when signal is input.

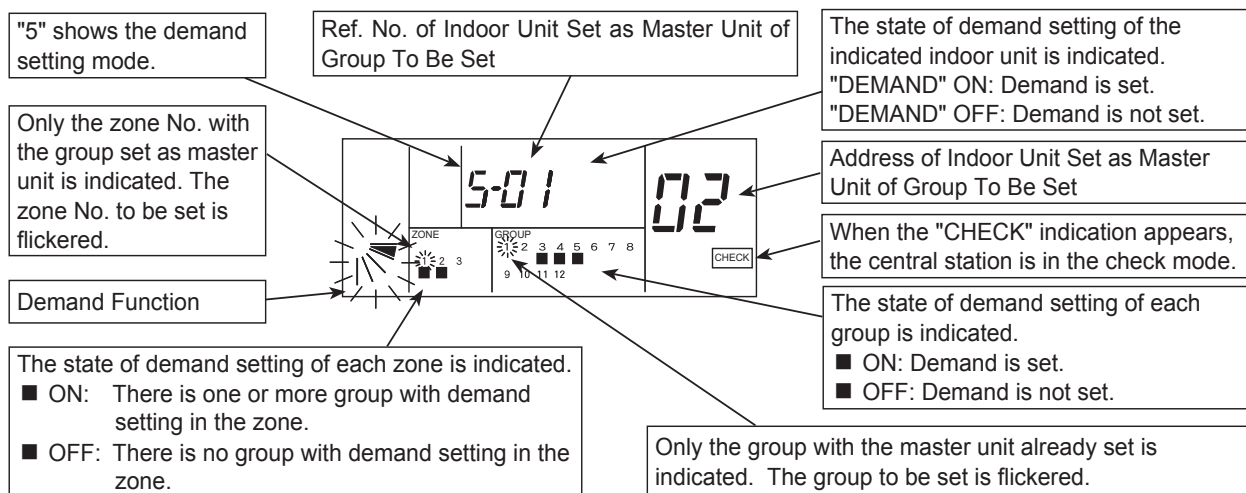
Demand Setting Procedure

(1) Changing to Check Mode

Depress the "CHECK" switch for more than 3 seconds, and the central station is changed to the check mode.
 *When there is any group in operation (with "RUN" indicator ON), the "CHECK" mode is not available.

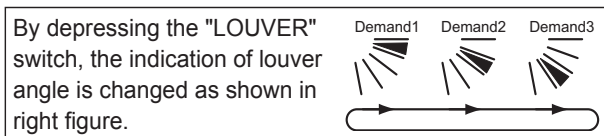
(2) Changing to Demand Setting Mode

Depress the "CHECK" switch and change the 7-segment indication for check to "5" (Demand Setting Mode).
 The LCD indication of the central station is as shown below.



(3) Selection of Demand Function

- Select the demand function by depressing the "LOUVER" switch.
- Depress the "RUN/STOP" switch, and the flickering indication of louver angle turns ON.



(4) Selection of Group To Be Set

The demand function can be set for all the indoor units, each zone or each group. The "■" indication of "GROUP", for which the demand setting is already set, turns ON.

In the case where there is one or more group with demand setting in the zone, the "■" indication of "ZONE" section turns ON.

● Simultaneous Setting for All Indoor Units

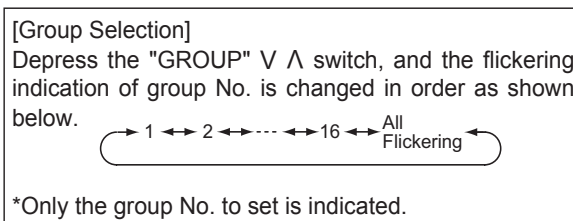
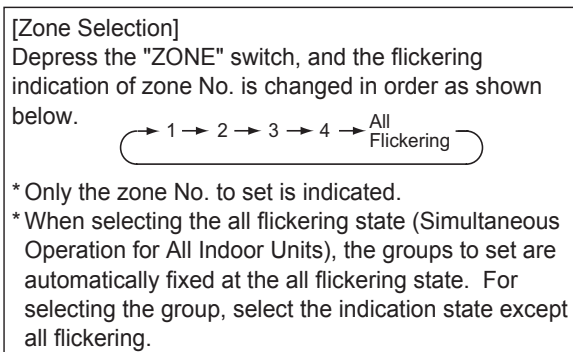
- Depress the "ZONE" switch to make all the zone No. flicker. Then, the minimum refrigerant system address and the minimum indoor unit address of the indoor unit, which is set as the master unit, in all groups are indicated.

● Setting for Each Zone

- Depress the "ZONE" switch and select the zone to set.
- Depress the "GROUP" V Λ switch to make the group No. to set flicker. Then, the minimum Ref. No. and the minimum I.U. Add. of the indoor unit set as the master unit of all groups are indicated.

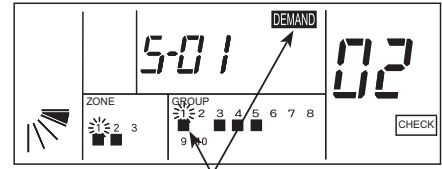
● Setting for Each Group

- Depress the "ZONE" switch and select the zone to set.
- Depress the "GROUP" V Λ switch to select the group to set. Then, the Ref. No. and I.U. Add. of the indoor unit set as the master unit of selected group are indicated.



(5) Setting Procedure

Depress the "RUN/STOP" switch and the selected group is set with demand control, and the "■" and "DEMAND" indications appear. In the case where there is one or more group with demand setting in the zone, the "■" indication of zone turns ON. (Every time the "RUN/STOP" switch is depressed, the demand control is set and canceled alternately.)



"■" and "SET" Indications: ON
(The demand control is set.)

6. Option Setting

(1) Changing to Option Setting Mode

- a. Depress the "CHECK" switch for more than 3 seconds while all the groups are stopped. The central station is changed to the option setting mode and the "CHECK" indication appears, and "1" (Master Unit Setting Mode) is indicated on the 7-segment for check.

ATTENTION:

When there is a group in operation, the central station can not be changed to the check mode.

- b. Depress the "CHECK" switch and change the indication of the 7-segment.

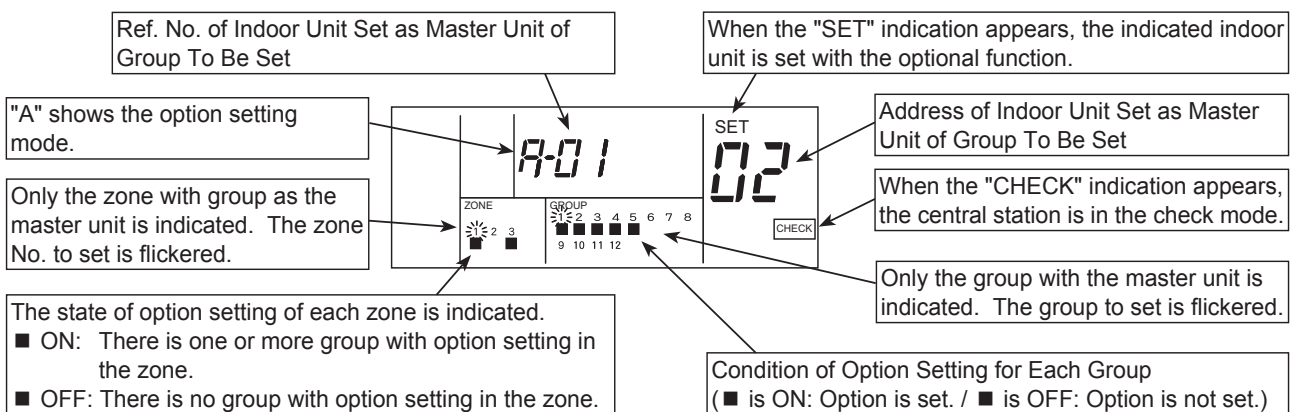
7-Segment	Function
A	Fixing Operation Mode
b	Fixing Setting Temperature
c	Fixing Cooling Only
d	Fixing Air Flow
E	Auto COOL / HEAT

- c. Depress the "RESET" switch and the central station is changed to the normal mode.

(2) Indication of Option Setting Mode

When the central station is changed to the slave unit setting mode, the LCD indication on the central station is as shown below. The indication of the group to be set is flickered. The Ref. No. and I.U. Add. indicates the address of the indoor unit which is set as the master unit of the group to be set. The "■" indication of group flickers in case that the option setting is already done. When the "SET" indication appears, the indoor unit indicated on LCD is already set with the optional function.

When there is one or more group with indoor unit set with option in the zone, the zone indication "■" turns ON.



(3) Setting Procedure

- a. Depress the "CHECK" switch and select the setting item A – E.
- b. Select the group to be set by depressing the "ZONE" switch and the "GROUP" switch. Refer to the "(4) Selection of Group To Be Set" (Page 11) for the group selection procedure.
- c. Depress the "RUN/STOP" switch, the selected group is subject to option setting and the "■" indication and the "SET" indication turn ON. When there is one or more group with indoor unit set with option in the zone, the zone indication "■" turns ON. Every time the "RUN/STOP" switch is depressed, the "■" indication and the "SET" indication turn ON and OFF alternately, and the state of option setting is changed; the selected group is to be set / not to be set with option setting.

CAUTION

- In case that the optional functions are set by the central station, it is required to set the same optional functions for the group by the remote control switch.
- In case that the optional functions (items A – E as shown in Page 12) are set by the remote control switch, it is required to set the same optional functions for the group by the central station.
- The group, which is set with both of the fixing set temperature (option setting) and "Demand 3" function, is back to the former set temperature (before Demand ON) when the demand signal is OFF.

7. Initialization of Central Station

The procedure for initialization of the group setting and the optional setting is as follows.

(1) Changing to Self Check Mode

Depress the "GROUP(V and \wedge)" and "MODE" switches simultaneously, the central station is changed to the self check mode. In case that there is a group in operation, the "NO FUNCTION" is indicated and the central station can not be changed to the self check mode.

After changing to the self check mode, the LCD indication is changed as shown below.

Then, depress the "GROUP(V and \wedge)" and "MODE" switches simultaneously again, and the central station is changed to the initializing mode.

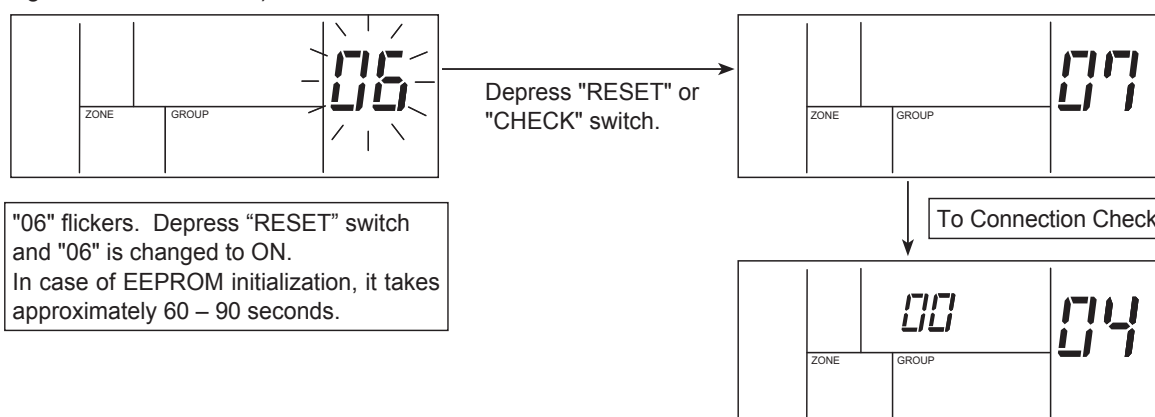
**NOTE:**

In case that the "GROUP(V and \wedge)" and "MODE" switches are not depressed again, the self check operation continues.

(2) Initialization of EEPROM

When the central station is changed to the initializing mode, the LCD indication on the central station is as shown below. In this condition, depress the "RESET" switch, and the flickering "06" indication is changed to ON and the initialization is performed.

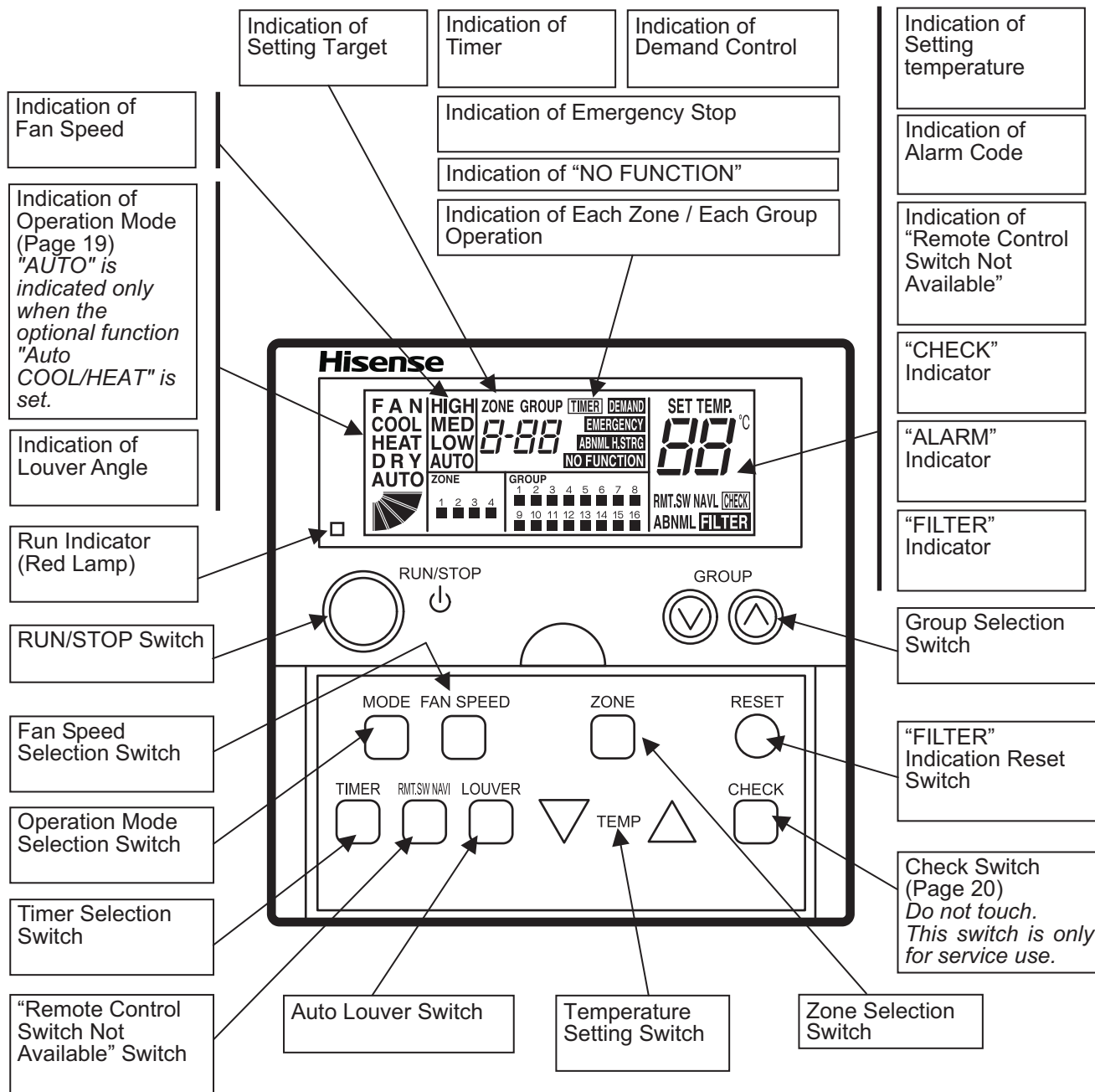
(In case that initialization is not required, depress the "CHECK" switch, the LCD indication is automatically changed as shown below.)



8. Switch Names and Functions

Liquid Crystal Display Selection

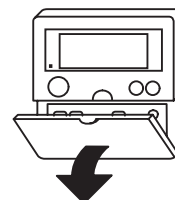
(The figure below shows all the indications for reference.)
 (The actual display during operation is different.)



Operation Switch Selection

(The above figure shows the control timer with the cover opened.)

When opening the cover, pull the cover toward the arrow direction.

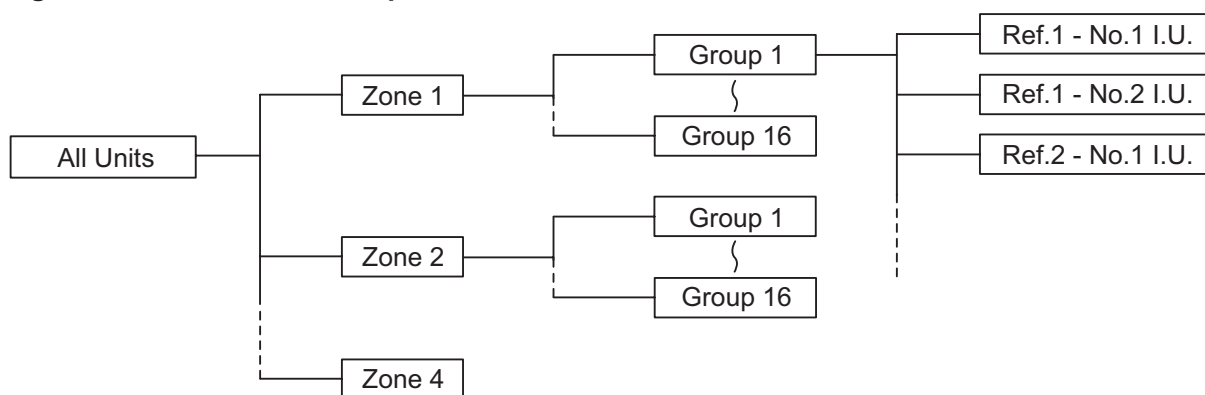


About Zone and Group

The central station controls plural indoor units as a unit (one indoor unit is also available).
 The operation unit is as follows;

- Group.....Minimum Operation Unit for Central Station
 One remote control switch group is considered as one group under the same control.
 The central station can control up to 64 groups (4 Zones x 16 Groups).
- ZoneOperation Unit Consisting of Plural Groups
 Up to 16 groups can be set in one zone.
 The central station can control up to 4 zones.
- Remote Control Switch Group.....Operation Unit Consisting of Plural Indoor Units Connected with Transmission Line of Remote Control Switch
 In the remote control switch group, the indoor units are under the same control setting.

■ Configuration of Zone and Group



For checking the contents of the setting for zone and group, use the "Zone and Group Setting Table of Central Station (2)" in page 15.

■ About Setting Target

The zone and the group subject to setting and monitoring are called as setting target. The central station indicates the setting target as shown below.

<p>Indication Example 1 This indication is the example in the case where the setting target is group. The setting of the selected group is ordered.</p>	<p>(ex. In case of Zone 1 and Group 2)</p>
<p>Indication Example 2 This indication is the example in the case where the setting target is zone. The setting of all the groups set in the selected zone is ordered.</p>	<p>(ex. In case of All Group in Zone 1)</p>
<p>Indication Example 3 This indication is the example in the case where the setting target is all the indoor units. The setting of all the units (all the groups) set is ordered.</p>	<p>(ex. In case of All Indoor Units)</p>

9. Operation Procedure

A. Setting Target Selection and Monitoring Operation Status

The central station can control up to 64 groups by each group, each zone or simultaneously .
 (The selected setting target can be operated and the unit operation status can be monitored.)

ATTENTION:

When changing the zone No. by depressing the "ZONE" switch, the zone, which is not set as group, is not indicated.
 The group number is changed by depressing the "GROUP" switch. The group without group setting is not indicated.

Preparation 1

Supply power to the unit.

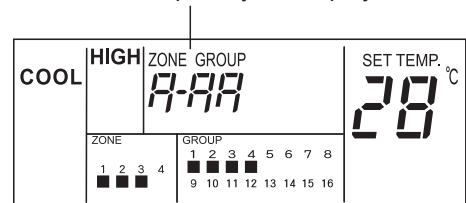
ATTENTION:

- A. Supply power to the unit more than 6 hours before unit operation for compressor protection.
- B. Do not cut off power during the term of using air conditioner.

Preparation 2

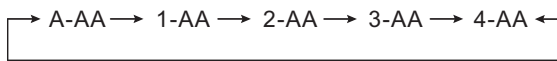
After the preparation for air conditioner operation is completed, turn ON the power supply of the central station.

The setting target zone and group No. is indicated on the liquid crystal display.



1. Depress the "ZONE" switch.

Every time the "ZONE" switch is depressed, the zone and group No. to be controlled is changed in the order as shown below.

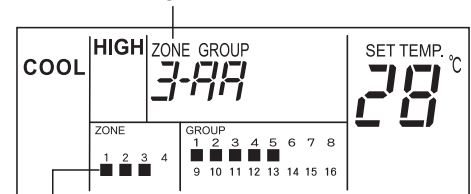


When the zone is changed, the setting target group is AA (All Groups) initially.

For example, depressing "ZONE" switch when the setting target is 1-02, the indication is changed to 2-AA.

Zone No. is changed.

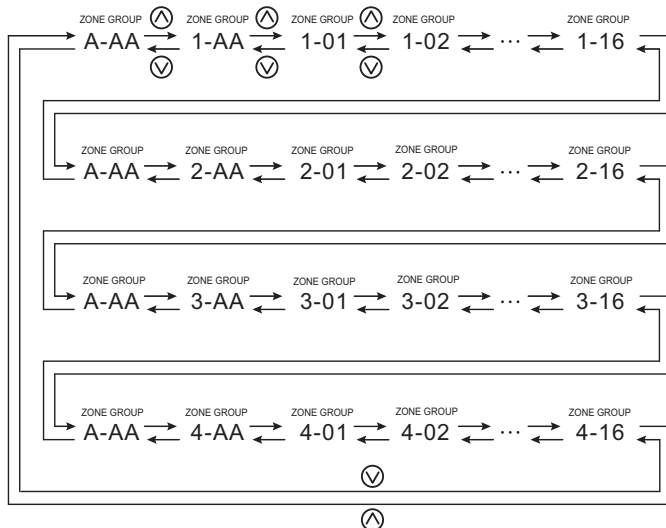
(ex. In case of All group in Zone 3)



Only Zone No. Already Set are indicated.

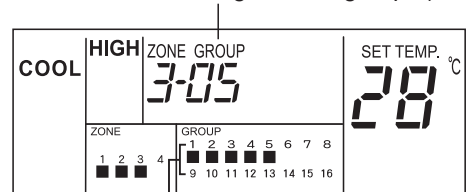
2. Depress the "GROUP" switch.

Every time the "GROUP" switch is depressed, the zone and group No. to be controlled is changed in the order as shown below. In case of "AA", all the units are controlled simultaneously.



Group No. is changed.

(ex. In case of selecting Zone 3, group 5)



Only Group Nos. Already Set are indicated.

3. When selecting the group, the setting conditions of each group are indicated.

By operating by the remote control switch, the content of the setting is indicated.

Zone ¹ ■ ~ ⁴ ■ show the operating conditions of each zone as follows;

OFF ... Stoppage of All Groups in Zone

■ ON ... Operation of One or More Group in Zone

■ Flickering ... Failure in One or More Group in Zone

¹ ~ ¹⁶ ■ show the operating conditions of each group as follows;

• ■ Turned OFF: Stop

• ■ Turned ON: Operation

• Flickering: Abnormality

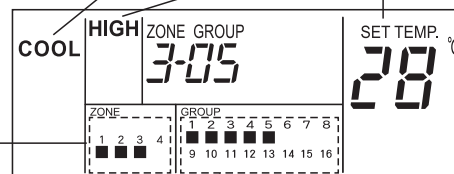
The Run indicator (Red Lamp) shows the followings;

• Turned OFF: All Indoor Units Stop

• Turned ON: More than 1 Group in Operation

• Flickering: More than 1 Group in Abnormal Condition

Operating Conditions of Each Group
(ex. In case of "COOL", "HIGH" and "28°C")



Operating Conditions of Each Group
(ex. In case of groups 1 ~ 5 of zone 3 in operation)

Operating Conditions of Each Zone
(ex. In case of more than one group of each zone 1 ~ 3 in operation)

NOTES:

- The indication of setting temperature "- -" shows no setting of temperature.
- When the setting target group is "AA" (All Groups), the indications of operation mode, set temperature, fan speed, louver angle and remote control switch not available are indicated only for the items which all groups are under the same setting.
- When the setting target group is "A-AA" (All Indoor Units), the indication "■" turns ON when there is one or more group in operation in each zone, and also flickers when there is one or more group in failure in each zone.

B. Setting of Operation Mode

<Function>

"COOL" Operation: To cool the room temperature by distributing the cooled air.

"HEAT" Operation: To heat the room temperature by distributing the heated air.

"DRY" Operation: To dehumidify more than standard cooling operation.

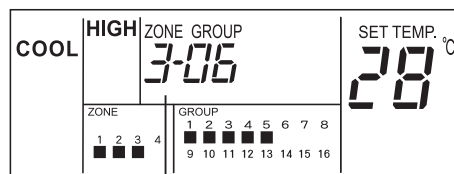
"FAN" Operation: To circulate the room air.

NOTE:

The recommended temperature for each operation is as follows;

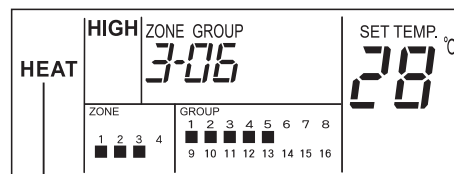
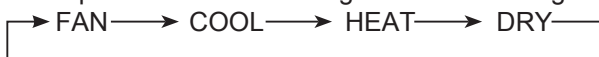
"COOL" Operation: 27~29°C / "HEAT" Operation: 18~20°C / "DRY" Operation: 23~25°C

1. Depress the "ZONE" switch and the "GROUP" switch and select the setting target.
(Refer to item 2 of "A. Setting Target Selection and Monitoring Unit Operation Status" .)



The above figure shows the case of selecting "ZONE 3, GROUP 6".

2. Depress the "MODE" switch.
The operation mode is changed in the following order.



The above figure shows the case of setting "HEAT" operation.

NOTES:

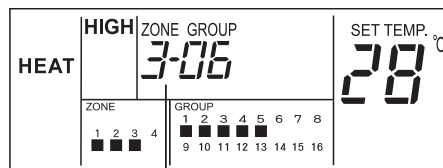
- The above indications show the case of setting operation mode for "ZONE 3, GROUP 6". The same setting procedure shall be performed for other groups.
- Some operation modes can not be set according to the unit model. Contact to Hisense dealer or your distributor for details.
- The operation mode can be set while the unit is stopped or in operation.

C. Setting of Temperature, Fan Speed and Louver Angle

ATTENTION:

- A. Do not touch the "CHECK" switch. The "CHECK" switch is only for service use.
- B. When the "CHECK" switch is depressed by a mistake and the central station is changed to the check mode, depress the "RESET" switch to cancel.

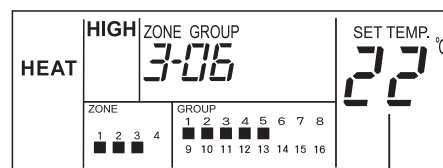
1. Depress the "ZONE" switch and the "GROUP" switch and select the setting target.
(Refer to item 2 of "A. Setting Target Selection and Monitoring Unit Operation Status" .)



The above figure shows the case of selecting "ZONE 3, GROUP 6".

<TEMPERATURE>
Set temperature by depressing "TEMP" switch.
Depressing ▾ switch, the temperature is increased by 1°C (Maximum: 30°C)
Depressing ▴ switch, the temperature is decreased by 1°C (Minimum: 19°C (for "COOL", "DRY" and "FAN" mode), 17°C (for "HEAT" mode))

When depressing ▴ for 3 seconds at set temperature at 30°C, or depressing ▾ for 3 seconds at the minimum temperature, the temperature is not set and the indication of setting temperature is "-". In this case, depress ▴ or ▾, the indication of setting temperature returns to the minimum temperature or 30°C.

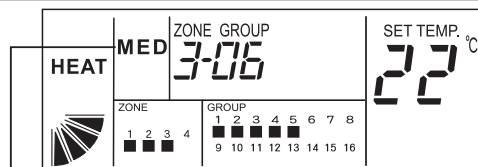


The above figure shows the case of setting 22°C.

NOTE:

The above shows the setting temperature range for standard model. The setting temperature range may be different according to the connected unit model.

<FAN SPEED>
Depress the "FAN SPEED" switch.
By depressing the "FAN SPEED" switch, the indication is changed in the following order;
→ HIGH → MED → LOW →



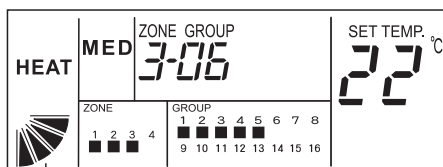
The above figure shows the case of setting "MED" fan speed.

NOTES:

- In case of dry operation, the fan speed is automatically changed and fixed at the "LOW" fan speed. In this case, the fan speed can not be changed (The indication remains at the setting condition).
- The above figure shows the indication of the standard unit. There is a case where the fan speed is not indicated according to the unit connected.

<LOUVER ANGLE>
Depress the "AUTO LOUVER" switch.
Every time the "AUTO LOUVER" switch is depressed, the indication of the louver angle is changed.
Depress the "AUTO LOUVER" switch at the position

of , the indication is changed to and this indication indicates the auto-swing.
Depress the "AUTO LOUVER" switch again, the indication is turned to .



The above figure shows the case of setting auto-swing.

NOTES:

- The above indications show the case of setting operation mode for "ZONE 3, GROUP 6". The same setting procedure shall be performed for other groups.
- The temperature, fan speed and louver angle can be set while the unit is stopped or in operation.

In Case of 4-Way Cassette Type (Example)

LCD Indication							
Air Louver Angle	Approx. 25°	Approx. 30°	Approx. 35°	Approx. 40°	Approx. 50°	Approx. 55°	Approx. 60°
COOL and DRY		Recommended Angle	Angle Range				
HEAT			Angle Range			Recommended Angle	

NOTES:

- The fixing angle of the louver shown above is the case of 4-way cassette type indoor unit. The fixing angle is different according to unit model. Refer to the operation manual of each model for details.
- There exists a time lag between the indicated louver position on LCD and the actual louver angle in operation. Therefore, when fixing the louver, set the angle according to the indicated louver angle on LCD.
- When the "AUTO LOUVER" switch is depressed, the louver may not stop immediately.

ATTENTION:

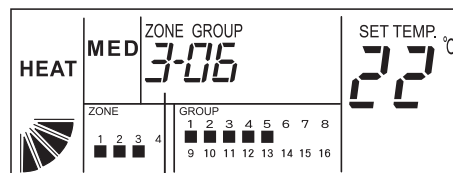
The louver angle is automatically changed during heating operation for unit control.

- When heating operation is started
 - When dry operation is started
 - When temperature controller is activated
- ▶ The louver angle is automatically changed. ▶
- When the discharge air temperature is increased over 30°C, the louver angle automatically return to the set position.

The LCD indication remains at the setting condition.

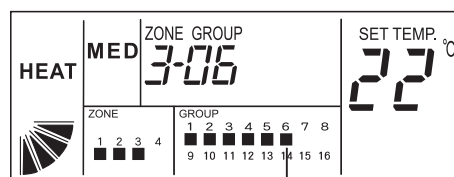
D. Unit Operation

1. Depress the "ZONE" switch and "GROUP" switch and select the setting target.
(Refer to item 2 of "A. Setting Target Selection and Monitoring Unit Operation Status" .)



The above figure shows the case of selecting "ZONE 3, GROUP 6".

2. Depress the "RUN/STOP" switch.
In case that the selected group is in operation, the group is stopped by depressing "RUN/STOP" switch.
In case that the group is not in operation, the group is started by depressing the "RUN/STOP" switch.



The above figure shows the case of "ZONE 3, GROUP 6" operation.

- In case of setting target group "AA", depress the "RUN/STOP" switch, and;
- All indoor units are stopped (When more than 1 group is in operation (Run lamp is ON)).
 - All the groups are started operation (When all the groups are stopped (Run lamp is OFF)).

NOTES:

- The above indications show the case of setting operation mode for "ZONE 3, GROUP 6".
- The same setting procedure shall be performed for other groups. In case of the simultaneous operation for all groups, select the group number of "AA".

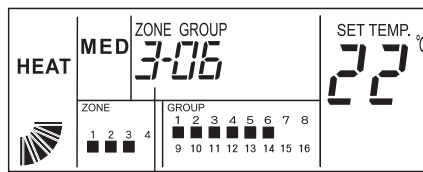
E. Prohibiting Operation by Remote Control Switch

<Function>

To prohibit the operation by the remote control switch.

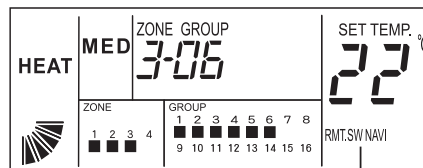
When this function is available, the "CENTRAL" indication appears on the LCD on the remote control switch and the operation by the remote control switch is not available.

1. Depress the "ZONE" switch and the "GROUP" switch and select the setting target.
(Refer to item 2 of "A. Setting Target Selection and Monitoring Unit Operation Status" .)



The above figure shows the case of selecting "ZONE 3, GROUP 6".

2. Depress the "RMT. SW NAVAL" switch. Every time the "RMT. SW NAVAL" switch is depressed, the "RMT. SW NAVAL" indication is turned ON and OFF alternately.



The above figure shows the case of "ZONE 3, GROUP 6" prohibited from operating by the remote control switch.

ATTENTION:

- A. The above indications show the case of setting operation mode for "ZONE 3, GROUP 6". The same setting procedure shall be performed for other groups.
- B. Although the "RMT. SW NAVAL" function is set, in case of operation by the central station, the unit can be stopped by the remote control switch, and in this case, the unit can be started again by the remote control switch.
- C. For the unit without remote control switch, the "RMT. SW NAVAL" function shall be set.
- D. In case of using together with other controllers, do not set the "RMT. SW NAVAL" function. Additionally, do not set the "RMT. SW NAVAL" function by other controller or the malfunction may occur.
- E. In case of no setting of temperature ("- -"), the temperature can be set by the remote control switch during the "RMT. SW NAVAL" function is available.

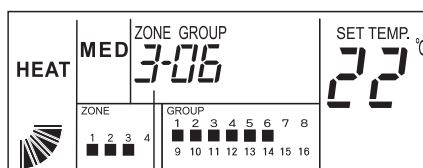
F. Timer Operation

<Function>

To set the schedule operation "available" or "not available" by the signal from the control timer in case of connection with the control timer (HYDE-E01H; Option).

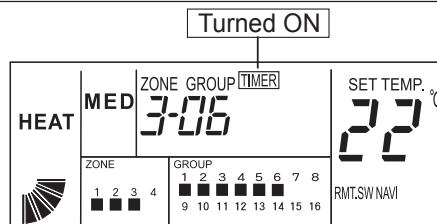
The schedule operation can be set "available" or "not available" for each group, each zone or simultaneously however, the operation schedule is all the same.

1. Depress the "ZONE" switch and the "GROUP" switch and select the setting target.
(Refer to item 2 of "A. Setting Target Selection and Monitoring Unit Operation Status" in page 18.)



The above figure shows the case of selecting "ZONE 3, GROUP 6".

2. Depress the "TIMER" switch. Every time the "TIMER" switch is depressed, the "TIMER" indication is turned ON and OFF alternately. The group with timer setting is operated according to setting schedule by the signal from the control timer.



The above figure shows the case of "ZONE 3, GROUP 6" setting timer operation.

NOTE:

The above indications show the case of setting operation mode for "ZONE 3, GROUP 6"

The same setting procedure shall be performed for other groups.

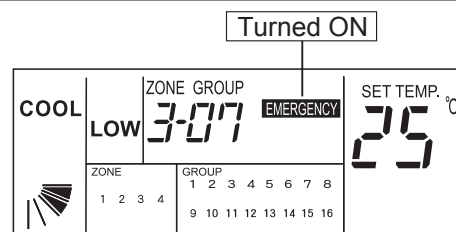
G. Other LCD Indications

Indication in Normal Condition

<EMERGENCY>

The "EMERGENCY" is indicated when the emergency stop signal is input by the outside input function. During the emergency stoppage, indoor units are stopped and the operation by the remote control switch is not available.

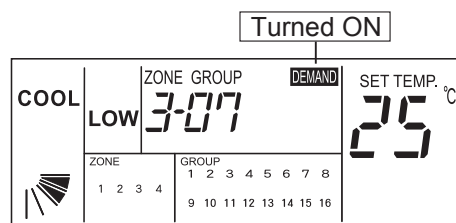
Contact your distributor or dealer of Hisense for details.



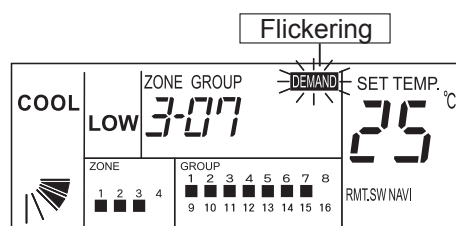
<DEMAND>

The "DEMAND" is indicated when the demand input is set by the outside input function. The indication is indicated for the group with demand setting and the "DEMAND" indication flickers when the demand signal is input.

Contact your distributor or dealer of Hisense for details.



In Case of Demand Setting

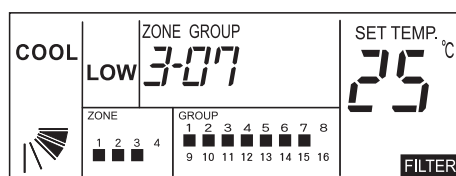


In Case of Demand Signal Input

<FILTER>

Filter Clogging:

When the "FILTER" indication is indicated, it shows that the air filter of the indoor unit is clogged. Clean the air filter. After cleaning, depress the "RESET" switch and the "FILTER" indication is turned OFF.



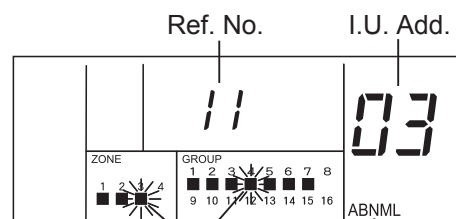
Turned ON

Indication in Abnormal Conditions

<ABNORMAL>

- The Run lamp (Red lamp) is flickered when there is a group in abnormal condition.
- The "ALARM" is indicated on the LCD.
- The "■" indication of the zone and the group in abnormal condition is flickered.
- Depress the "ZONE" switch and the "GROUP" switch and select the group with alarm, the indication of unit No., model code, alarm code and the normal indication is repeatedly indicated (There is a case that the model code may not be indicated according to the unit model).
- In case that multiple units are in abnormal conditions, the above indication is indicated by turns.

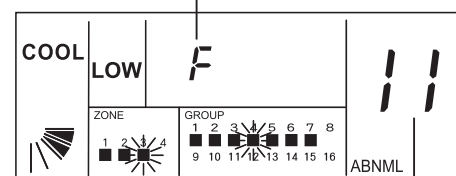
Check the contents of the LCD indication and contact your distributor or dealer of Hisense for details.



Flickering

Turned ON

Model Code



Alarm Code

<POWER FAILURE>

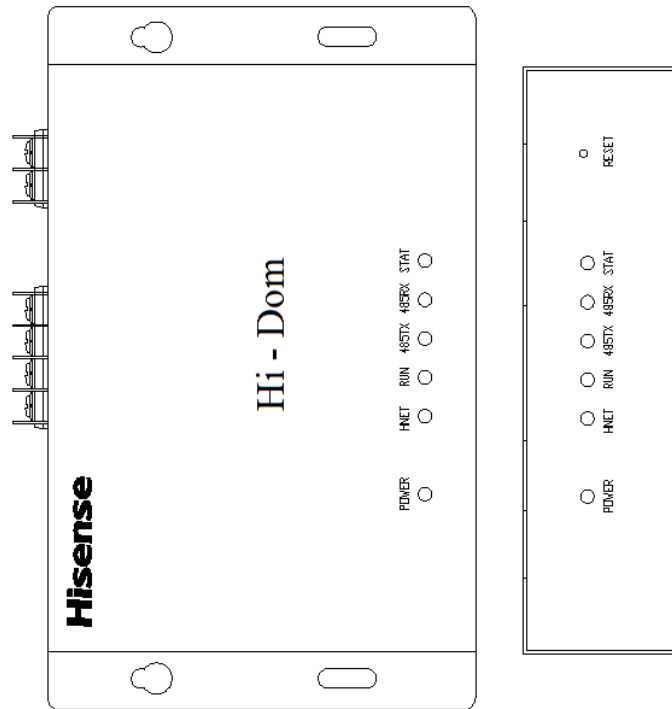
- All the indications are disappeared.
- In case of unit stoppage due to the power failure, the unit is not started again after the power recovery. Perform the starting operation again.
- In case of instant power failure within 2 seconds, the unit is automatically started again.

<ELECTRICAL NOISE>

All the indications are disappeared, and the unit operation may be stopped for the device protection due to the electrical noise. Perform the starting operation again

Preamble

- This product is the air-conditioning gateway and service software for air-conditioning centralized monitoring and management system Hi-Dom.
- This air-conditioning gateway requires server (server installed with software which should be bought from field sales) in concert with Ethernet or Internet for use.
- Do not install the machine in the following locations, such as the places filled with gas or oil droplets, prone to cause fire, deformation, corrosion and damage to the machine.
 - Places with oil (including machine oil) splashes and steam.
 - Places such as springs with sulfide gas
- Do not install in the following locations, as this may cause corrosion.
 - coastal place with high salinity
 - acidic or alkaline environment areas with high humidity
- Do not install in the following locations, as this may cause a malfunction or fault.
 - Exposure to direct sunlight.
 - places at high temperature.
 - places flooded with water.
 - places with poor ventilation
- When installed near the machine emitting electromagnetic waves, note that the electromagnetic wave emitting surface of the machine should not directly face this unit.
- To avoid the influence of electromagnetic waves, make sure the machines generating electromagnetic waves, such as radio, etc are kept 3m or more away from this unit.



1. System Components

1.1 Connection scheme

The connection scheme of this system is shown in Figure 1.1. This manual only describes the installation and configuration of Hi-Dom system, for other units in the system, please refer to the respective operating instructions supplied.

- ※One air-conditioning management server can connect up to 16 air-conditioning gateways.
- ※One air-conditioning gateway can connect 128 indoor air conditioners (the number of outdoor units linked should not be bigger than 64, the united outdoor device composed of more modules is also treated as 1 outdoor unit.)
- ※A single system can connect 2048 indoor air conditioners.

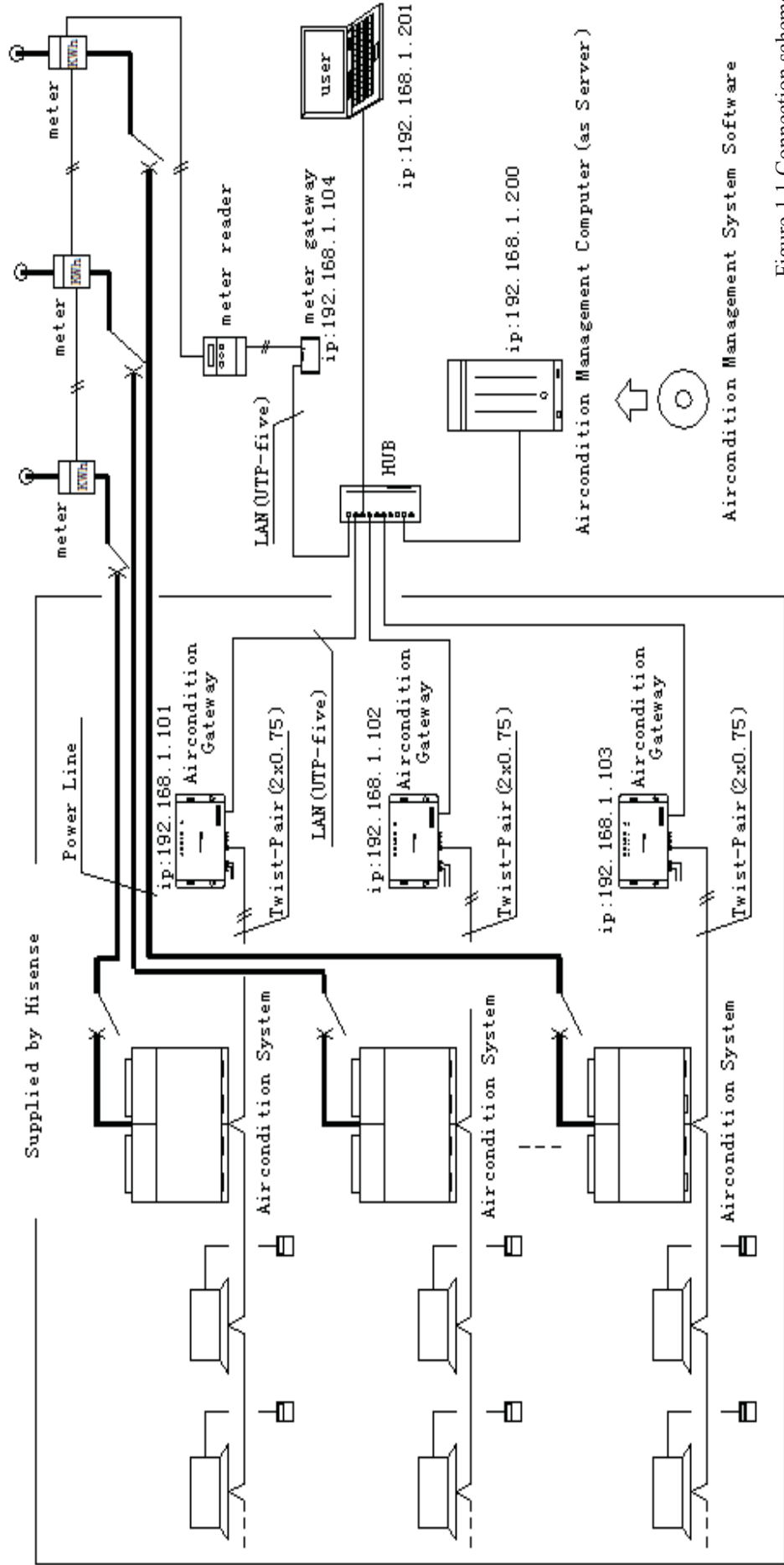


Figure 1.1 Connection scheme

1.2 Name of Hi-Dom parts

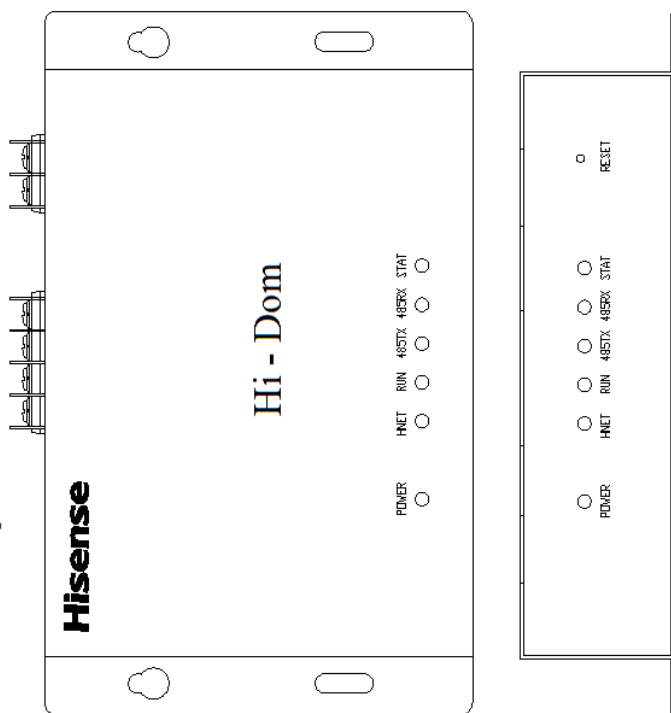


Figure 1.2 LED indicators

1.2.1 Description of LED indicators

POWER	Power display LED (red)	it is on when the unit is power-on
HNET	Air-condition side communication display LED (yellow)	flashing when a signal is transmitted from HNET system
RUN	working status display (green)	it is on when initialization and flashing during normal operation
485TX	RS485 signal output(yellow)	flashing when this unit has signal transmitted from RS485 interface
485RX	RS485 signal output(yellow)	flashing when there is signal transmitted from RS485 interface to the unit
STAT	status indicator (green)	it is on when completing factory reset / without HNET access
RESET	reset button	

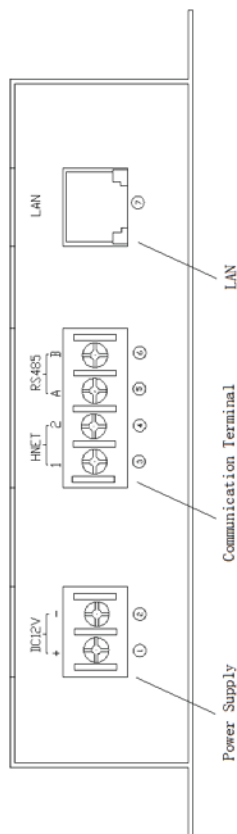


Figure 1.3 Terminal marking diagram

1.2.2 Terminal marking instruction

- ① : Power input(DC12V)Non-polarized
- ② : Power input(DC12V)Non-polarized
- ③ : HNET signal inputNon-polarized
- ④ : HNET signal inputNon-polarized
- ⑤ : RS485 A positive
- ⑥ : RS485 Bnegative
- ⑦ : LAN interface

1.3 Specifications

The hardware specifications of this unit are shown in Table 1.1; communication specifications are shown in Table 1.2 and Table 1.3.

Table 1.1 Hardware Specifications

Item	Specification
Power Supply	DC 12V
Power consumption	Below 1.5W
Environmental conditions	Ambient temperature:0~40℃ Ambient humidity:20~85%(non-condensing)
Dimensions	Length:180mm Width:110mm Height:40mm
Weight	0.55kg
Installation conditions	Using screws or guide rail for indoor installation Horizontal (installation) / vertical (wall-mounted)

Table 1.2 HNET (communication wiring) Communication specifications

Item	Specification
Communication objects	Air-condition outdoor unit and indoor unit
Communication wiring	Non-polarized 2 core wire
Communication mode	Half-duplex communication
Communication synchronous mode	asynchronous communication
Communication speed	9600 bps
Wiring distance	Total length less than 1000m
Number of air conditioners connected	128 indoor units

Table 1.3 LAN(Ethernet) Communication Specification

Item	Specification
Communication objects	air conditioning management server, switch
Communication wiring	LAN(Ethernet)
Communication mode	IEEE802.3 standard(10BASE-T/100BASE-TX)
Wiring distance	100m

2. Air-conditioning gateway installation and wiring

2.1 Installation site

Please choose a place that meets the following conditions to install the unit.

- Please choose the site as specified in the [preamble] of this installation manual.
- This unit is to be mounted in the weak current control box.

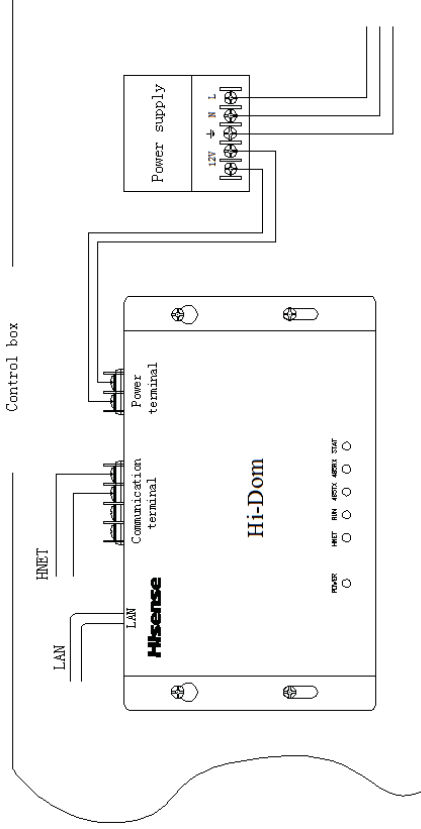


Figure 2.1 Installation diagram

2.2 Installation and wiring instructions

- (1) Air Conditioning Gateway needs to be installed in the weak current control cabinet with screws for vertical mounting and guide rail for horizontal installation, in case of vertical installation with screws, certain gap is to be left for 30~50mm wiring around the gateway.
- (2) Communication and power supply terminals are barrier terminal blocks, rotate the terminals counterclockwise with appropriate Phillips screwdriver, then insert the wire into the terminal and rotate the terminal clockwise, wire installation is complete.
- (3) Refer to the air-conditioning wiring requirements for the wiring of air conditioner side.
- (4) LAN interface is RJ45 interface, insert it directly into LAN interface.

3. System installation configuration and debugging

3.1 Service software installation

One-click installation, double-click the installation package, as shown in Figure 3.1:

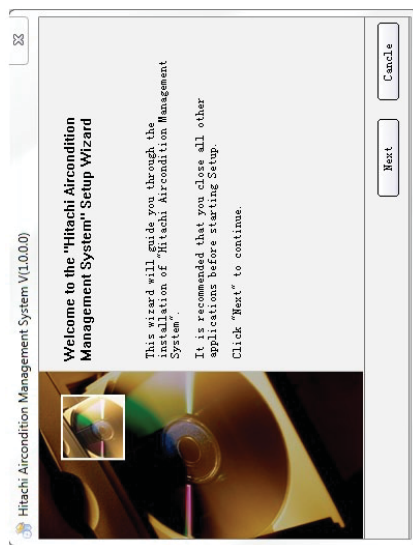


Figure 3.1 Installation start interface
Click “Next” until the end of the installation, as shown in Figure 3.2:

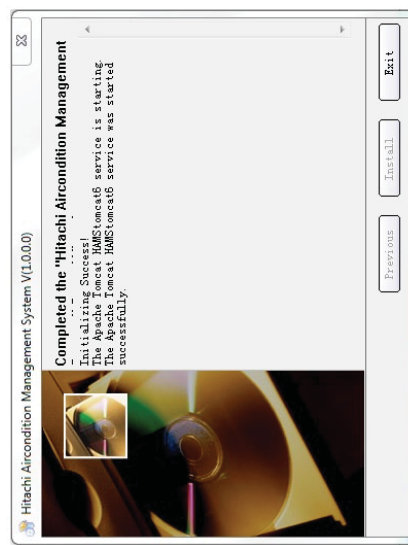


Figure 3.2 Installation completion interface

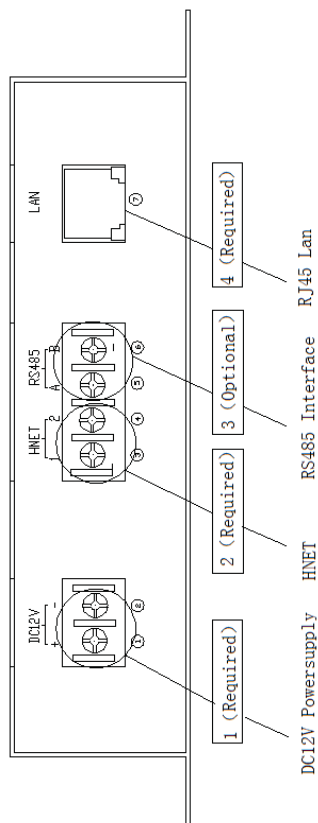


Figure 2.2 Wiring diagram

For wiring specifications in Figure 2.2 Wiring diagram, see Table 2.2 Wiring Specification Table

Table 2.2 Wiring Specification

No.	Wiring type	Voltage specification between lines	Usage of wiring	Distance of wiring	Cable Specification
1	power supply wiring	DC 12V	For power supply to air conditioning gateway, a must-have	—	0.75~1mm ²
2	HNET wiring	DC 5V	For communication with air-conditioning, a must-have	Within 1000m	0.75~1mm ²
3	RS485 communications wiring	DC 5V	For communication with ModBus and other external communication control equipment, optional	Within 1000m	0.75~1mm ²
4	LAN wiring	IEEE 802.3 standard	For communication with management server, a must-have	Within 100m	LAN(UTP-five)

After installation is completed, login screen is automatic pop-up as shown in Figure 3.3, click on <Set the default browser> in the page, this browser is set as the default browser, a shortcut login system will be automatically created on the desktop. The default username of this system is admin, password is admin.

When first installed, the page pop-up takes 1 to 2 minutes, please be patient.



Figure3.3 Login screen

3.2 IP address setting

3.2.1 Air-conditioning centralized management server IP address setting
 Due to different operating system of air conditioning centralized management server, refer to the IP address setting instructions of relevant operating system for its IP setting, but the IP address of the server must be in the same network segment with the IP address of air conditioning gateway. The so-called same network segment refers to the first 3 segments of the IP address are the same(subnet mask: 255.255.255.0 is supposed), for example, the first three segments of 192.168.1.2 and 192.168.1.101 are “192.168.1”, so 192.168.1.101 and 192.168.1.2 are in the same network segment.

3.2.2 Air-conditioning gateway IP address setting

The factory default IP of air conditioning gateway is set as:

IP address:192.168.1.101
 Subnet mask: 255.255.255.0

Default gateway: 192.168.1.1

When used on site, the IP address of the air conditioning gateway is re-set according to network configuration on the site.

How to set the IP of air conditioning gateway:

1. First, prepare a server for air conditioning gateway IP address setting (laptop of debugging personnel or air conditioning centralized management server), set “Local IP” address of the server to:

IP address: 192.168.1.2

Subnet mask:255.255.255.0

Default gateway:192.168.1.1

2. Power on the gateway to be set, waiting for the gateway getting into working state (“RUN” indicator flashes, without considering other indicators),

3. Connect the server for setting directly to the air-conditioning gateway with a network cable, enter the IP address of the air-conditioning gateway in the server web browser address bar: 192.168.1.101, press carriage return, the browser displays the login screen as shown in Figure 3.4:



Figure 3.4 Setting and debugging login screen

4. Enter the user name: admin, with no password, click on the login, the interface appears after login as shown in Figure 3.5.



Figure3.5 Setting and debugging

Click <Network Settings> into the IP settings interface, as shown in Figure 3.6 (other options have nothing to do with IP address setting, do not change, otherwise it will lead to consequences of unable to return!)



Figure 3.6 Network Settings screen

5. According to the site conditions, it only needs to change <LAN IP Address> and <Remote Server IP Address> to change the settings of the IP address, <Remote Server IP Address> is the server IP address for installing air-conditioning system management software. Click <Change> button, as shown in Figure 3.7, the system prompts to confirm the information. Click <OK>, the air conditioning gateway IP address change is completed.

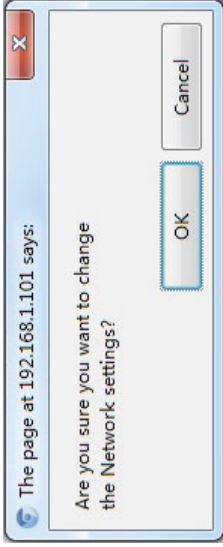


Figure 3.7 Network settings confirmation interface

Note:

If in need of check settings or re-set, enter the new set IP address in the browser address bar to enter the setting interface, or it cannot be logged in, for example, if the IP address is changed from factory setting of 192.168.1.101 to 192.168.1.105, it will display a prompt of inability to log in when entering 192.168.1.101 in the address bar, you need to enter the new address 192.168.1.105 to re-enter the gateway setting interface, so after setting the IP address, the new IP address must be marked on a tag attached to the gateway to facilitate future maintenance.

Pay attention to the sequence of this operation, first set the computer's "Local IP", then wait until the gateway is in the normal working state ("RUN" indicator flashes, without considering other indicators), then connect the computer to the air conditioning gateway with a network cable. Otherwise, if connect the computer to the gateway, then power on the gateway and set the computer's "Local IP", it may not enter the setting interface.

3.2.3 Meter reading gateway IP settings

For meter reading gateway IP settings, see IP settings of air-conditioning gateway.

3.3 Check the air conditioning connection of each gateway

is permitted as long as it is not repeated.

※Air conditioning gateway ID is the unique identification for air conditioning gateway, consisting of a total of 32 letters or numbers set during the production, it is not changed after leaving factory and can be obtained from the nameplate on the back of the gateway or from WEB configuration page inside it, the access method to the WEB configuration page is as follows:
In the Gateway Configuration main interface, click <Production Information> to enter the factory information interface, as shown in Figure 3.10:



Figure3.10 Factory information interface

“MAC ” here is “air conditioning Gateway ID”, it can be copied for use.
Repeat this operation to add all air conditioning gateways into Hi-Dom system
After all gateways are added and saved successfully, click <read time> to read gateway time, and click <timing> for revision of gateway internal time. if air conditioning gateway is connected to the computer properly, and “air conditioning gateway ID” is correct, <connection status> will display <connected>, <timing result> will display <normal>; otherwise it will display <not connected> and <abnormal>, in this case, please check the IP address settings, cable connections, switch power supply and air conditioning gateway ID, etc.

3.4.2 Adding meter reading gateways

Enter <Check debugging> -> <electricity and gas meter gateway

maintenance> page, as shown in Figure 3.11, for the configuration process, please refer to air conditioning gateway adding.

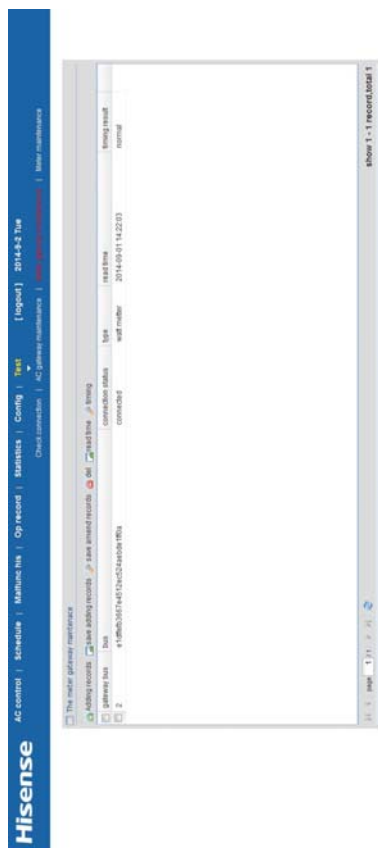


Figure 3.11 Metering gateway maintenance interface

※The bus line number of meter reading is the actual wire number of electricity meters, i.e. the numbering of the meter reading gateway, NOTE: the meter reading bus number shall not replicate the bus number of air conditioning.

※Meter reading gateway ID is the unique identification for meter reading gateway, consisting of a total of 32 numbers, which is not changed after leaving factory and can be obtained from the nameplate on the back of the gateway or from WEB configuration page inside it, for the access method, refer to that of air conditioning gateway.

3.4.3 Air conditioning connection search and save

After all air-conditioning gateways and meter reading gateways are added, click <Search> button in <Test> -> <Check connection > page, as shown in Figure 3.12, to search the air conditioning connection information. After the search is completed, all air-conditioning connections can be shown, click on <Save> and then click on <Download the result> to export the basic configuration information table.

Table 3.1 Header and Meaning of Configuration Information Table

Name of Column	Meaning	Remarks
ID	Increase progressively according to the table (figure larger than 1)	Required
GW_ID	Air conditioner gateway mac address (32 digits) can be obtained from nameplate on back of the gateway or form the gateway's inner web configuration page	Required
GW_Line NO.	Gateway Serial No. (Figure Larger than 1)	Required
OU_address	Address of Outdoor unit (Figure Larger than 1)	Required
IU_address	Address of Indoor unit (Figure Larger than 1)	Required
Building	Building Catalog Level I, Such as: Building.A	Required
Floor	Building Catalog Level II, Such as: F3	Required
Room	Building Catalog Level III, Such as: Room 202	Required
Tenant	Lessee Using Air Conditioner	Required
Tenant_NO.	Lessee Serial No.; Be use for ordering the billing statement (Figure Larger than 1)	Required
IU_model	Model of indoor unit	Required
IU_capacity	Capacity of indoor unit (Figure Larger than 1)	Required
OU_Alias	Alias of outdoor unit (Letters and Figures; Mark installation position or service area of outdoor unit)	Required
OU_model	Model of outdoor unit	Required
OU standby Power (×1W)	Spare (Figure Larger than 1); Blank space is not allowed.	Required
Meter GW_ID	Meter Reading Gateway mac Address (32 Digits) can be obtained from nameplate on back of the gateway or form the gateway's inner web configuration page	Optional (Fill when connecting electricity meter)

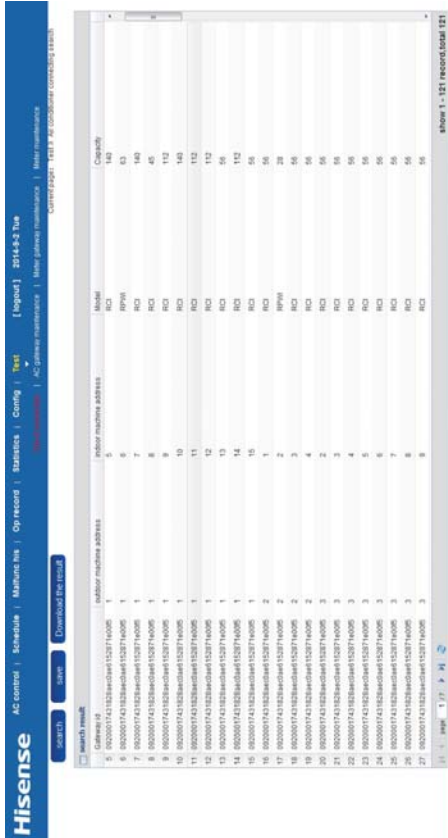


Figure 3.12 Connection search interface

3.5 Edit and lead in basic configuration table

Edit the basic configuration table according to actual location for the air conditioner and electricity meter. See Table 3.1 for header and meaning of the configuration information table.

Name of Column	Meaning	Remarks
Meter GW_line_NO	Meter Reading Gateway Serial No. (Figure Larger than 1. Note: It shall be not the same with other meter reading gateway line numbers or air conditioner gateway line numbers)	Optional (Fill when connecting electricity meter)
OU_meter1	Electricity Meter Add. (Figure of 8~10 Digits)	Optional (Fill when connecting electricity meter)
Meter current transformer coefficient	If electricity meter is connected with current transformer, it shall indicate ratio of transformation for current transformer (Figure Larger than 1)	Optional (Fill when connecting electricity meter) Actual electricity consumption is number of degree obtained by meter reading multiplied by multiple of ratio of transformation.
Meter GW_ID	Meter Reading Gateway mac Address (32 Digits) can be obtained from nameplate on back of the gateway or form the gateway's inner web configuration page	Optional (Fill when connecting electricity meter)
Meter GW_line_NO	Meter Reading Gateway Serial No. (Figure Larger than 1. Note: It shall be not the same with other meter reading gateway line numbers or air conditioner gateway line numbers)	Optional (Fill when connecting electricity meter)
OU_meter2	Electricity Meter Add. (Figure of 8~10 Digits)	Optional (Fill when connecting electricity meter)

Name of Column	Meaning	Remarks
Meter current transformer coefficient	If electricity meter is connected with current transformer, it shall indicate ratio of transformation for current transformer (Figure Larger than 1)	Optional (Fill when connecting electricity meter) Actual electricity consumption is number of degree obtained by meter reading multiplied by multiple of ratio of transformation.
Meter GW_ID	Meter Reading Gateway mac Address (32 Digits) can be obtained from nameplate on back of the gateway or form the gateway's inner web configuration page	Optional (Fill when connecting electricity meter)
Meter GW_line_NO	Meter Reading Gateway Serial No. (Figure Larger than 1. Note: It shall be not the same with other meter reading gateway line numbers or air conditioner gateway line numbers)	Optional (Fill when connecting electricity meter)
OU_meter3	Electricity Meter Add. (Figure of 8~10 Digits)	Optional (Fill when connecting electricity meter)
Meter current transformer coefficient	If electricity meter is connected with current transformer, it shall indicate ratio of transformation for current transformer (Figure Larger than 1)	Optional (Fill when connecting electricity meter) Actual electricity consumption is number of degree obtained by meter reading multiplied by multiple of ratio of transformation.

※ In actual configuration table, <Meter GW_ID>, <Meter GW_line_NO>, <OU_meter> and <Meter current transformer coefficient> can have repeated multi columns for the united outdoor device composed of more modules, one electricity meter for each module.

Figure 3.13 configuration information instance

ID	GW_ID	GW_Line NO.	OU_address	IU_address	Building	Floor	Room	Tenant	Tenant_NO	IU_model	IU_capacity	OU_Alias	OU_model	OU_standby Power(×1W)	Meter GW_ID	MeterGW_line_NO	OU_meter	Meter current transformer coefficient
1	0be0ff12400429ae9a46c52871e0015	1	1	1	A	1F	Room_A101	Tom	1	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
2	0be0ff12400429ae9a46c52871e0015	1	1	2	A	1F	Room_A102	Antonio	2	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
3	0be0ff12400429ae9a46c52871e0015	1	1	3	A	1F	Room_A103	Jacob	3	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
4	0be0ff12400429ae9a46c52871e0015	1	1	4	A	1F	Room_A104	Jacob	4	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
5	0be0ff12400429ae9a46c52871e0015	1	1	5	A	1F	Room_A105	Alexis	5	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
6	0be0ff12400429ae9a46c52871e0015	1	1	6	A	1F	Room_A106	Alexis	6	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
7	0be0ff12400429ae9a46c52871e0015	1	1	7	A	1F	Room_A107	Michael	7	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
8	0be0ff12400429ae9a46c52871e0015	1	1	8	A	1F	Room_A108	Michael	8	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
9	0be0ff12400429ae9a46c52871e0015	1	1	9	A	2F	Room_A201	Emily	9	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
10	0be0ff12400429ae9a46c52871e0015	1	1	10	A	2F	Room_A202	Emily	10	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
11	0be0ff12400429ae9a46c52871e0015	1	1	11	A	2F	Room_A203	Madison	11	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
12	0be0ff12400429ae9a46c52871e0015	1	1	12	A	2F	Room_A204	Madison	12	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
13	0be0ff12400429ae9a46c52871e0015	1	1	13	A	2F	Room_A205	Edward	13	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
14	0be0ff12400429ae9a46c52871e0015	1	1	14	A	2F	Room_A206	Daniel	14	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
15	0be0ff12400429ae9a46c52871e0015	1	1	15	A	2F	Room_A207	Daniel	15	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
16	0be0ff12400429ae9a46c52871e0015	1	1	16	A	2F	Room_A208	Daniel	16	RPI-28FSN6Q	28	AC_OU_1	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	3789654	1
17	0be0ff12400429ae9a46c52871e0015	1	2	1	A	3F	Room_A301	Erin	17	RPI-28FSN6Q	28	AC_OU_2	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	774532	1
18	0be0ff12400429ae9a46c52871e0015	1	2	2	A	3F	Room_A302	Hunter	18	RPI-28FSN6Q	28	AC_OU_2	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	774532	1
19	0be0ff12400429ae9a46c52871e0015	1	2	3	A	3F	Room_A303	Hunter	19	RPI-28FSN6Q	28	AC_OU_2	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	774532	1
20	0be0ff12400429ae9a46c52871e0015	1	2	4	A	3F	Room_A304	Stephanie	20	RPI-28FSN6Q	28	AC_OU_2	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	774532	1
21	0be0ff12400429ae9a46c52871e0015	1	2	5	A	3F	Room_A305	Stephanie	21	RPI-28FSN6Q	28	AC_OU_2	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	774532	1
22	0be0ff12400429ae9a46c52871e0015	1	2	6	A	3F	Room_A306	Brittany	22	RPI-28FSN6Q	28	AC_OU_2	RAS-560FSN6Q	5	ffffffffffffffffffffc0a88a69	2	774532	1

When editing is completed, enter into the <Configuration Information>-><Installation Information Import>Page, as shown in Fig. 3.14. Click <Select Document> to select edited configuration document, then click <Upload> to lead in the configuration document.

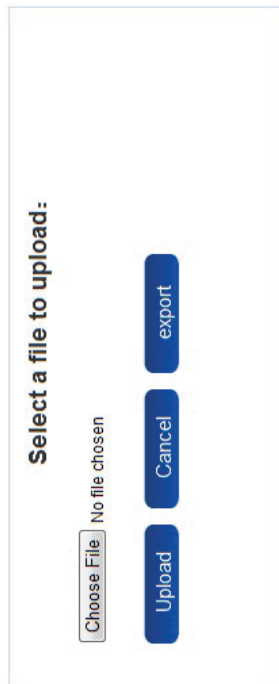


Fig. 3.14 Installation Information Import Page

Note:

If air conditioner connection information table is prepared and perfected before installing Hi-Dom system, all steps in 3.4 can be directly skipped and it just needs to lead in the installation information configuration table from here.

3.6 Issue electricity meter address

Enter into the <Test>->< Meter Maintenance> page as shown in Fig. 3.15. Before issuing address, the page matching status displays <need match>, then click <Sending address> to issue electricity meter address. When electricity meter address is issued, the page matching status will display <Match Success> as shown in Fig. 3.16, and the system matching is completed.

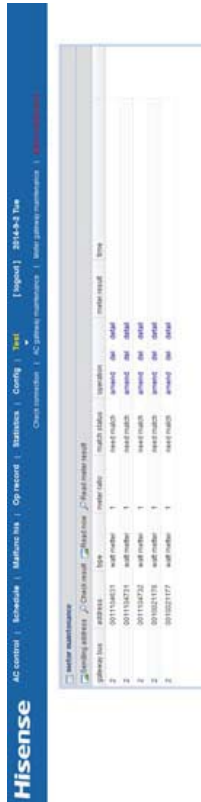


Fig. 3.15 Electricity Meter Maintenance Page



Fig. 3.16 Complete configuration of electricity meter address

4. Air Conditioner Gateway Power Supply Input

4.1 Power Supply Input

- (1) Firstly, confirm that power normal (DC 12V),HNET and LAN connection is normal, then supply power to the machine.
- (2) When power supply is input, POWER light of gateway is lightened normally (power supply indicator) and RUN light (operation indicator) is lightened normally until air conditioner searching is completed when the RUN light will start flickering.
- (3) When air conditioner searching is completed, the RUN light will start flickering. If the gateway fails to search out air conditioner, STAT will be lightened normally. If at least 1 air conditioner is searched out, the STAT light won't be lightened.

(4) When the machine works normally, POWER light will be lightened normally, HNET light will flicker irregularly and RUN light will flicker regularly.

4.2 Reset to Defaults

When it is electrified and RUN light is lightened normally, it can be reset to defaults in the first 15 seconds. At this time, when long pressing the Reset Button for 4 seconds, the RUN light will die out. At this time, if stop pressing the Reset Button, the RUN light will flicker, the STST light will be lighted normally after 2 seconds, and resetting is completed. When electrify again, the system will be reset to defaults.

- ※ Conduct air conditioner searching after RUN is lighting for 15 seconds. It is invalid pressing the RESET button at this time.
- ※ Reset to default will only empty information of timer and air conditioner locking, ip address will be recovered to 192.168.1.101, and billing related information won't be emptied.

4.3 Normal/Abnormal Display

Refer Table 4.1 for normal/abnormal display of working conditions of the machine

Table 4.1 Normal/abnormal display

LED Name	Expressed Item	Lighting Conditions	Lighting-off Conditions
POWER	Power	Power on	Power off
RUN	working conditions of the machine	<ul style="list-style-type: none"> · Often lighting when the machine implements air conditioner connection confirmation · Lighting and dying flickering in frequency of 0.5 seconds when the machine is in normal working 	<ul style="list-style-type: none"> · Lighting and dying flickering in frequency of 0.5 seconds when the machine is in normal working

485TX	RS485 sends out signal status	When sending out data on RS485	When it fails to send out data on RS485
485RX	RS485 receives signal status	When receiving data on RS485	When it fails to receive data on RS485
HNET	HNET Communication Status	<ul style="list-style-type: none"> · When data has been received on HNET · When data has been sent out on HNET 	<ul style="list-style-type: none"> · When data fails to be received on HNET · When data fails to be sent out on HNET
STAT	Status Display	<ul style="list-style-type: none"> · No HNET system connection · Complete resetting 	Other conditions
LAN	LAN Communication Status	<ul style="list-style-type: none"> · Light when connection is confirmed on LAN · Flicker when data is received or sent out on LAN 	When no connection signal is received on LAN

5. Maintenance and After-sale Services

5.1 Handling Methods in Abnormalities

Refer to Table 5.1 – Handling Methods in Abnormalities for methods judging and handling abnormal conditions.

Table 5.1 – Handling Methods in Abnormalities

NO.	Phenomenon	Content of Inspection	Handling Method
1	It cannot connect air conditioner and meter reading gateway in power supply.	<p>Check whether air conditioner and meter reading gateway mac address is set correctly in gateway maintenance.</p> <p>Check whether ip address of server is set correctly.</p> <p>Check whether ip address of server is set correctly on the air conditioner and meter reading gateway configuration page.</p> <p>Check whether LAN wiring is connected on the machine.</p>	<p>Log in gateway configuration page and confirm mac address configuration.</p> <p>Set ip address of server and gateway ip address into the same segment.</p> <p>Log in air conditioner and meter reading gateway configuration page and confirm ip address configuration of server.</p> <p>1. Please connect LAN wiring of the machine. 2. Please confirm whether terminals are matched.</p> <p>Please connect HNET wiring of the machine.</p>
2	Air conditioner searching connection confirmation cannot be completed in power supply	<p>Check whether terminal resistance setting on HNET wiring is normal.</p> <p>Check whether address of air conditioner is set normally.</p> <p>Check whether HNET wiring is disconnected.</p> <p>Check whether all air conditioners connected have had power.</p> <p>Check whether HNET wiring is of specified specifications.</p> <p>Check whether HNET LED is lighting/dying out continuously.</p>	<p>On HNET wiring, only 1 piece of terminal resistance can be connected.</p> <p>Please refer to Letter of Installation Spot Check Essentials and Operation Instruction for air conditioner for setting indoor and outdoor machine addresses again.</p> <p>Please check wiring connection conditions.</p> <p>Please electrify all connected air conditioners.</p> <p>Please use cable with sectional area larger than 0.75 and total length within 1000m.</p> <ul style="list-style-type: none"> • Please confirm whether HNET wiring is connected normally. • Check whether HNET loop protection fuse inside the machine is fused. • If above conditions are all confirmed normal, it may be fault of the machine. Please contact with the nearest repair center.
3	Be unable to communicate with air conditioner management server	<p>Check whether LAN wiring is connected on the machine.</p> <p>Check whether LAN wiring is connected on air conditioner dedicated server.</p> <p>Check whether IP address for air conditioner dedicated server is in the same segment with IP address of the machine.</p> <p>Check whether PING to the machine from the management server is available.</p> <p>Check whether it is LAN wiring of specified specifications.</p>	<p>1. Please check LAN wiring of the machine. 2. Please check whether terminals are matched.</p> <p>Please connect LAN wiring used for managing computer.</p> <p>Please confirm whether terminals are matched.</p> <p>Initial IP address of the machine is 192.168.1.101. Please check network conditions with common PC instead of the machine.</p> <p>Please use LAN cable above Category 5 below 100m.</p>

M-Concentrator

Model:HCCS-H247R4C1E

Installation Configuration and Maintenance Manual

Preamble

- This product is Schneider meter iEM 3150 and iEM 3350 meter readers.
- This product requires air conditioning and Hi-Dom gateway server (computer services software is installed, the computer needs local procurement) and with the use of Ethernet or the Internet.
- Do not install the machine in the following locations, such as the places filled with gas or oil droplets, prone to cause fire, deformation, corrosion and damage to the machine.
 - Places with oil (including machine oil) splashes and steam.
 - Places such as springs with sulfide gas
- Do not install in the following locations, as this may cause corrosion.
 - coastal place with high salinity
 - acidic or alkaline environment
 - areas with high humidity
- Do not install in the following locations, as this may cause a malfunction or fault.
 - Exposure to direct sunlight.
 - places at high temperature.
 - places flooded with water.
 - places with poor ventilation
- When installed near the machine emitting electromagnetic waves, note that the electromagnetic wave emitting surface of the machine should not directly face this unit.
- To avoid the influence of electromagnetic waves, make sure the machines generating electromagnetic waves, such as radio, etc are kept 3m or more away from this unit.

1. System Components

1.1 Connection scheme

The connection scheme of this system is shown in Figure 1.1. This manual only describes the installation and configuration of M-Concentrator, for other units in the system, please refer to the respective operating instructions supplied.

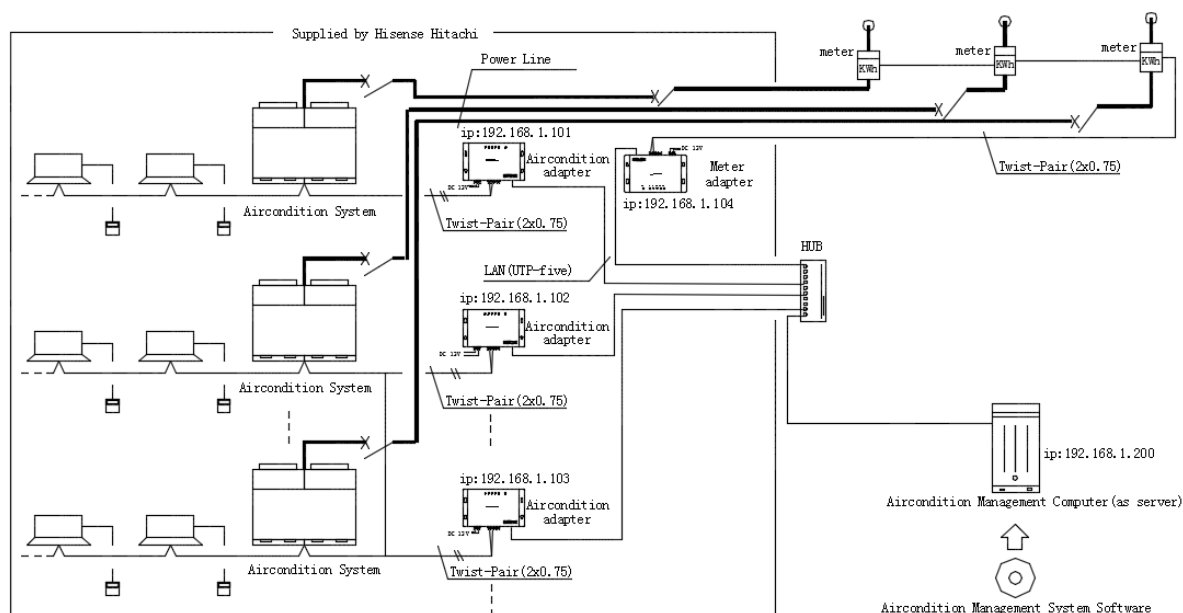


Figure 1.1 Connection scheme

※ One M-Concentrator can connect up to 247 shneider meters.

1.2 Name of meter adapter parts

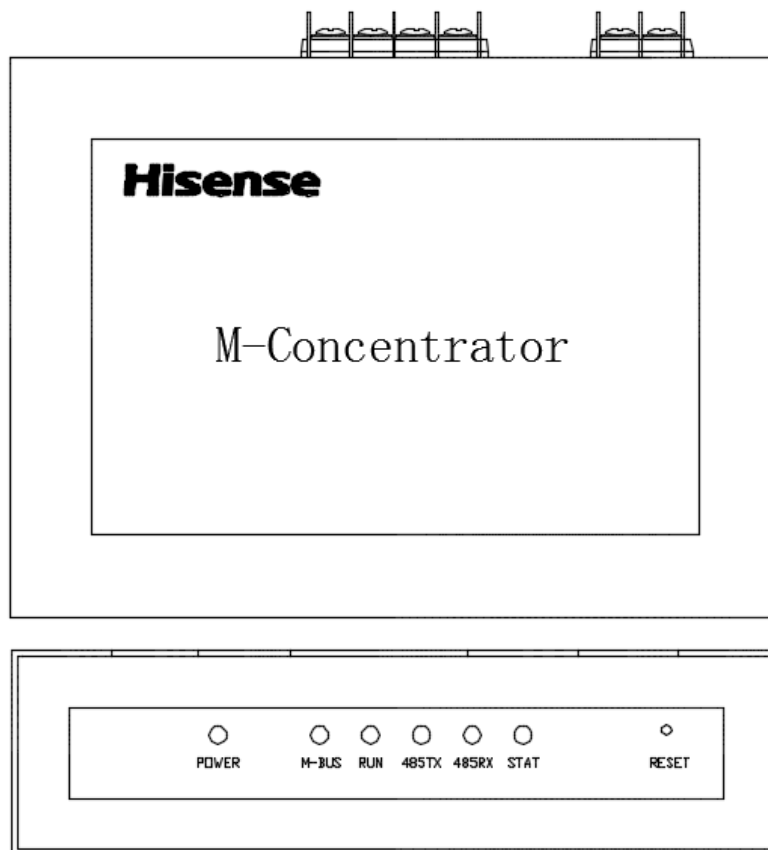


Figure 1.2 LED indicators

1.2.1 Description of LED indicators

POWER	Power display LED (red)	it is on when the unit is power-on
M-BUS	M-BUS signal communication display LED (yellow)	flashing when M-BUS signal is transmitted
RUN	working status display (green)	it is on when initialization and flashing during normal operation
485TX	RS485 signal output(yellow)	flashing when this unit has signal transmitted from RS485 interface
485RX	RS485 signal output(yellow)	flashing when there is signal transmitted from RS485 interface to the unit
STAT	status indicator (green)	flashing when there is signal transmitted from RS485 interface to the unit
RESET	reset button	it is on when completing factory reset /without H-NET access

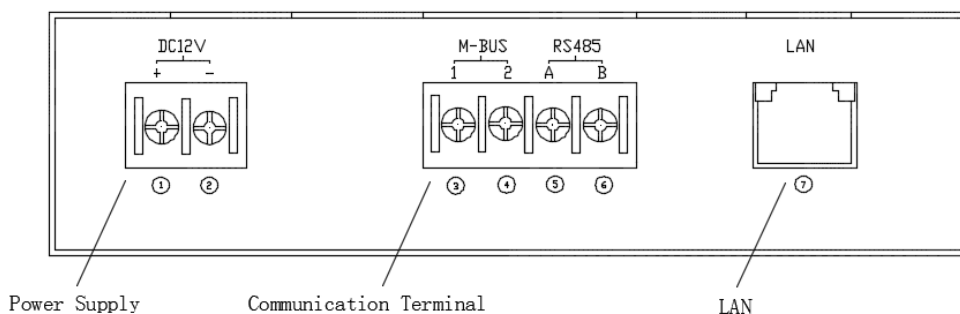


Figure 1.3 Terminal marking diagram

1.2.2 Terminal marking instruction

- ① : Power input(DC12V)-----Non-polarized
- ② : Power input(DC12V)-----Non-polarized
- ③ : M-BUS signal input -----Non-polarized
- ④ : M-BUS signal input -----Non-polarized
- ⑤ : RS485 A -----positive
- ⑥ : RS485 B -----negative
- ⑦ :LAN interface

※DC12V and DC5V power supply can not simultaneously access.

1.3 Specifications of meter adapter

Meter adapter specifications and LAN (Ethernet) communication specifications, see aircondition adapter related specifications.

Meter adapter RS485 communication specifications:

Table 1.1 RS485 communication specifications

Item	Specification
Communication objects	Meter (iEM3150 or iEM3350 supplied by Schneider Electric)
Communication wiring	Non-polarized 2 core wire
Communication mode	Half-duplex communication
Communication synchronous mode	asynchronous communication
Communication speed	19200 bps
Wiring distance	Total length less than 1000m
Number of meters connected	247

2. installation and wiring

2.1 Installation site

Please choose a place that meets the following conditions to install the unit.

- Please choose the site as specified in the [preamble] of this installation manual.
- This unit is to be mounted in the weak current control box.

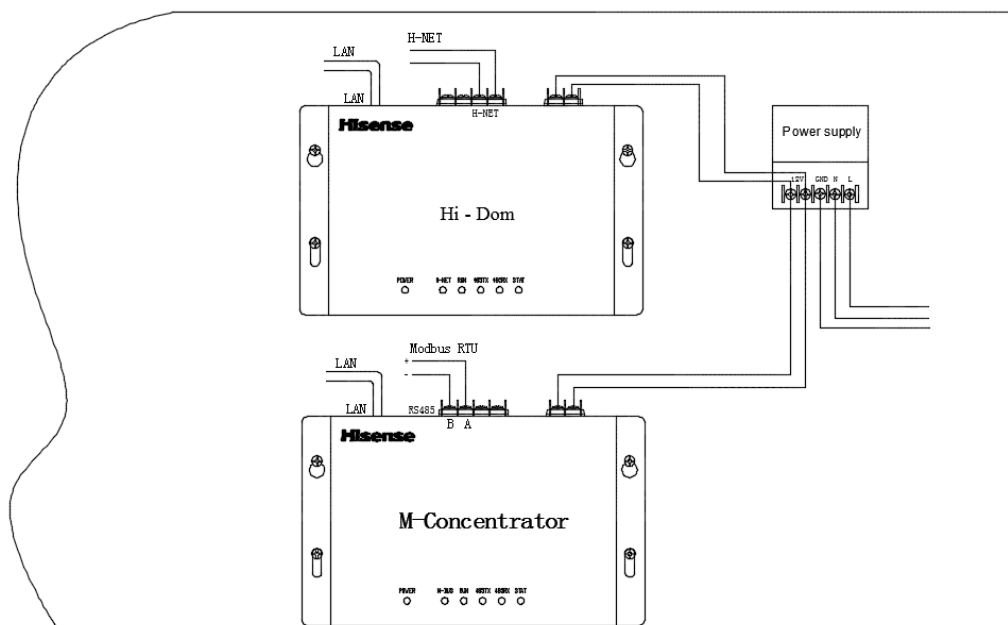


Figure 2.1 Installation diagram

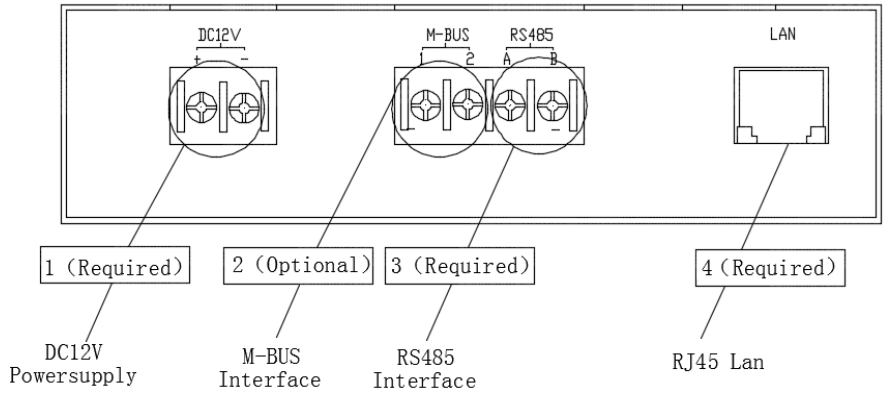


Figure 2.2 Wiring diagram of meter adapter

Figure 2.2 meter adapter wiring diagram wiring specifications, see Table 2.1 Wiring Specification of meter adapter.

Table 2.1 Wiring Specification of meter adapter

No.	Wiring type	Voltage specification between lines	Usage of wiring	Distance of wiring	Cable Specification
1	RS485 communications wiring	DC 5V	For communication with meter supporting Modbus RTU of Schneider Electric, a must-have.	Within 1000m	0.75~1mm ²

Other wiring specifications, see air conditioning adapter wiring specifications.

3. System installation configuration and debugging

3.1 IP address setting

3.1.1 Meter reading adapter IP settings

Meter Concentrator wiring and IP settings, see wiring and IP settings of air-conditioning adapter.

The factory default IP of meter adapter is set as:

IP address: 192.168.1.101

Subnet mask: 255.255.255.0

Default adapter: 192.168.1.1

When used on site, the IP address of the meter adapter is re-set according to network configuration on the site. Connect the server for setting directly to the air-conditioning adapter with a network cable, enter the IP address of the air-conditioning adapter in the server web browser address bar: 192.168.1.101, press carriage return, the browser displays the login screen as shown in Figure 3.1:

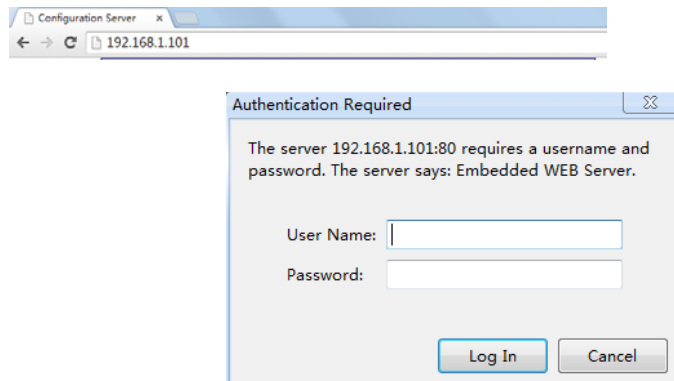


Figure 3.1 Setting and debugging login screen

Enter the user name: admin, with no password, click on the login, the interface appears after login as shown in Figure 3.2.

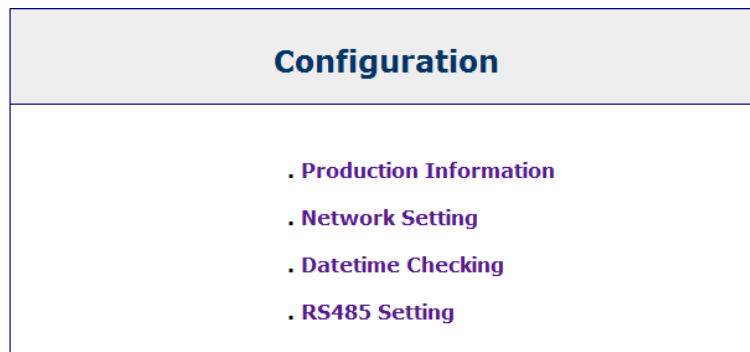


Figure3.2 Setting and debugging

Click <Network Settings> into the IP settings interface, Please refer to ip setting of air condition adapter. Click <RS485 Settings> into RS485 interface as shown in Figure 3.3:

RS485 Configuration

Communicate By Modbus/RTU By Modbus/TCP

Get AC status By inquiry By hardware informing

Device address:

Baudrate: ▼

Data: ▼

Parity: ▼

Stop bit: ▼

Figure3.3 RS485 setting

※ Content shown in Fig. 3.3 must be consistent with the relevant setting content meter, the meter's RS485 port settings refer to meter manual of Schneider.

4 Regular Spot Check

In order to guarantee normal operation of the air conditioner system including this system, please conduct spot check to at least following content.

- (1) Surrounding environment
 - Check whether temperature of the machine is very high.
 - Check whether temperature in installation weak current control cabinet is very high.
 - Check whether there are dust, powder, wiring scraps, etc. in the machine.
- (2) LED Display
 - Check whether POWER light is always lighting-on.
 - Check whether RUN light is always flickering.
- (3) Connection Part
 - Check whether wiring connection conditions are normal.

One key controller

Instruction for installation

Read and understand this manual, exactly install the one key controller
 This manual apply to the installation of one key controller, coordinate wired controller, centralized controller

Memo: this data must be used when proceed below installation items, please keep in good condition.
 (carrying and installing) → (wiring) → (running in) → (user)

Begin

The product is controller of internal general air-conditioning

Cannot put the controller on below place. the product must be far away from flammable gas and liquid, because it will lead to fire hazard and deformation、corrosion or damage.

- the place where will be splashing of oil (included machine oil) and the place where is vaporous vapory
- the place where will be much Sulfide gas, such as hot spring

Cannot put the controller on below place. the product will be corrosion

- the place where is high salinity, such as seaboard
- acid gas environment
- when use medical apparatus and instruments which will emit electromagnetic wave, in order to prevent the electromagnetic interference lead to the wrong operation. Please do not install the product in the same direction with the electromagnetic wave device.
 - in order to avoid the electromagnetic interference, please install the product 3m away from the electromagnetic device and broadcasting equipment.


Safety Summary

- Read the Safety Summary before installation and use.
- the matters need attention divide into: [⚠warning], [⚠attention] . [⚠warning] record the items about serious injury or death which cause by wrong installation. [⚠attention] record the possible serious result according to the different status .both of this two points are involve safety, Please comply with them.
- after installation, proceed the “running in”, explain to the users about the method of application and maintenance method also tell user to keep the “instruction for installation” after confirm the operation is in good condition.


【Meaning of symbol】

- ⚠ Warning: it means that wrong operation will be lead to serious injury or death
- ⓘ : Mandatory items. It means that ,indicate the not specified users
- ⊘ : Prohibited items

Warning of installation

 warning	● please install serious according to the manual or will lead to electric shock, fire hazard or controller fall down	ⓘ
	● when install the product, there Should consider the weight capacity, when the strength not enough or install insufficiency, it will easy lead to the controller falling down and damage the product	ⓘ
	● Please do not place the product to the position of flammable gas and liquid, it will possible cause the fire hazard .	⊘

Electrical construction

 warning	● Please entrust the qualified installer and the qualified electrical installer for the installation, or it will have a risk of electric shock.	ⓘ
	● When proceed the electrical installation, please refer to relevant national standard and follow relevant technical standard of electrical equipment . Must use separate power distribution, if power capacity is not enough or construction not good will lead to electric shock or fire hazard.	ⓘ

	<ul style="list-style-type: none"> ● must cut all the power for the indoor unit before wiring. Because under the status of power on, and proceed the wiring will cause the PCB of indoor unit and controller breaking down 	❗
	<ul style="list-style-type: none"> ● electric wiring ,spot check which need to open the air-conditioning elektrischer Kasten or controller, please cut all the power. 	❗

indicate confirmation items, after confirmation then mark by☑

1. Installation work

【Designation of installation place】

1) the installation of one key controller should be base on the easy operation, and get the acceptance from customers. please do not install the product to below place:

- the place where child can reach
- the air outlet of air-conditioning
- the place where have steam with oil
- the place where with high humidity

2) in order to prevent the electromagnetic interference lead to the wrong operation. Please do not install the product in the same direction with the electromagnetic wave device.

do not let the electromagnetic wave device face to the Electrical Cabinet, cable, remote control and other controller directly.



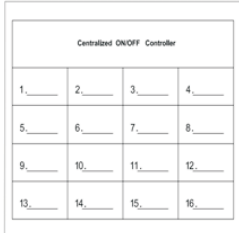


in order to avoid the electromagnetic interference, please place the controller 3m away from the electromagnetic wave device

please place the controller into iron box, and put the cable into iron pipe

if there is electromagnetic interference, please install the filter.

【Before installation】

1) ensure the components in the package before installation.

Name	One key controller	Screw	Label	Instruction for Installation	magnet ring
shape		 M4×23mm			
quantity	1	2	1	1	1
use	run/stop	Use for noumenon installation	Use for marking	Spot check instruction for installation	interferenc e prevention

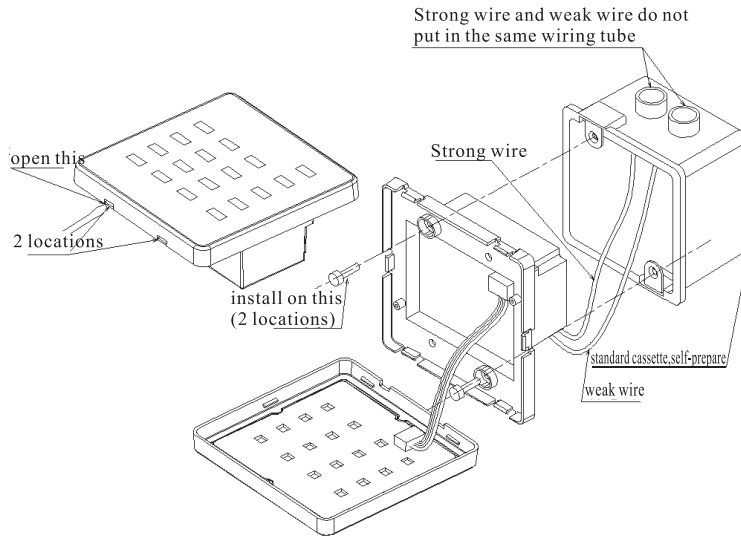
【Main point for installation】

⚠ Warning	<ul style="list-style-type: none"> ● Please install or operate one key controller according to this manual or it will possible lead to the product falling down and damage. 	❗
--------------	--	---

1) one key controller must be used after fixation.

2) turn on two locations show as below two depressions (there are two PCB, please do not let them contact) .

□3) open the accessory, install by self-contained tool.



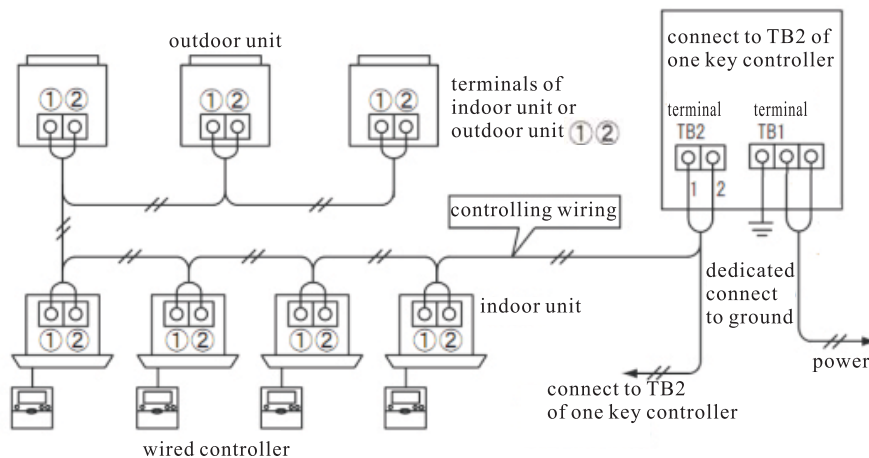
2. Main points of wiring connection

⚠ Warning	●cut the power before set the dial switch of one key controller or it will lead to the electric shock	⚠
	●the connection of wiring should be firm. If connect loose, the temperature of wire will increase, this will lead to fire hazard or electric shock.	⚠
	●outer connected wiring should be firm, if the firm reject, the temperature will increase, this will lead to fire hazard .	⚠
	●cut the power before proceed the wiring operation or it will cause the electric shock.	⚠

Memo	● Avoid the line of communication and the 220V power line Routing Neck and neck. Or it will have interference and lead to wrong operation.	⚠
------	--	---

□1) Methods of wiring

At most 8 sets of one key controllers connection to the same communication (wiring control)
 Line of communication of one key controller, connected line of communication of outdoor unit and connected line of communication of indoor unit (DC5V) are “2 core” cable(0.75~1.25mm)
 (type: VCTF, VCT, CVV, MVVS, CVVS, VVR, VVF) or “2 core” twisted-pair (type: KPEV, KPEV-S).
 Besides, overall length of wiring is under 1000m.



□2) The setting of dial switch

• Set the dial switch according to below form. When one key controllers(at most 8 sets) connect to several machines in same communication protocol, it need to set the address (default: OFF)

●The setting of dial switch

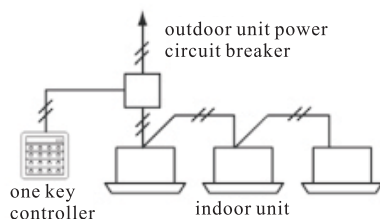
	NO.	content	DSW set		Memo
			OFF	ON	
DSW1	1	Use to address setting	Refer to below setting		When one key controllers(at most 8 sets) connect to several machines in communication, each one key controllers need to set the address.※1
	2				
	3				
	4	models	other	unit	—

●Address setting of DSW1

Address	0	1	2	3	4	5	6	7
DSW1 setting	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4	ON OFF 1 2 3 4

※1:when connect with several set of one key controllers in the same time, DSW1 cannot set repetition, or it will be abnormal .

●attentions when use 220V alternating current



● AC220, as left picture show, separate from Electrical Cabinet then connect (the wiring between indoor unit ,please refer to manual)

Attention

- If wrong connection, then the one key controller will break down.
- if the one key controller connect under the status of power on, the one key controller will possible break down, therefore, please cut the power of air-conditioning and controller.
- please do not make the line of communication, cable and other line of communication routing Neck and neck, if you must to do this, the distance between the wiring must be > 30cm, or use iron pipe ,and need to connect to ground.
- if mistake to connect the cable to the terminal strip, the fuse of PCB will fusing. after correct connection, set the DSW1-2 dial switch of PCB to ON .
- TBl ground connection terminal is a Surge absorber pins. It need to connect the ground connection terminal wiring if proceed the insulating property test and pressure-tight test .

3. Group register

● Attention of group register

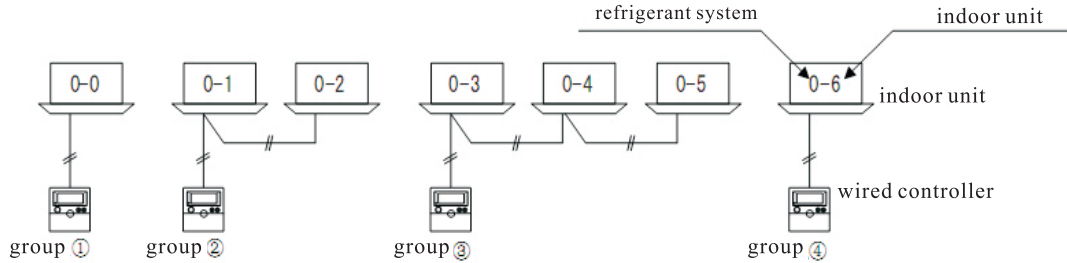
Attention:

- If use the one key controller to control the indoor unit, the indoor unit need to connect to wired control or wireless receiver.
- In Group register treating processes, the one key controller cannot be operated.
- one wired controller connect to indoor unit with different systems is not allowed.
- must connect to Secondary or above communication protocol indoor unit.

The ways of one key controller register as below:

□1) Group Setting Procedure

- (1) Noumenon of one key controller have not got the function of group register, when group register self-motion grouping via indoor unit address setting.
- (2) Indoor units of same wired controller define to a ground, as below figures show , each units is a ground.



- (3) Up to 8 one key controllers can connect to the same communication(wiring control). When single one key controller connect to several machines, the DSW1 of one key controller will set as address.
- (4) single one key controller register as per the address of indoor unit, below condition mean finish register:
 - 16 groups finish register
 - no indoor unit in the same refrigerant system.
 - the address is discontinuity in the same refrigerant system, and there is follow-up discontinuity in the same refrigerant system

In the same communication protocol connect several one key controllers, one key controller register from machine 0, after ground 0 finish register, then the ground 1 ,ground 2, ground 3...

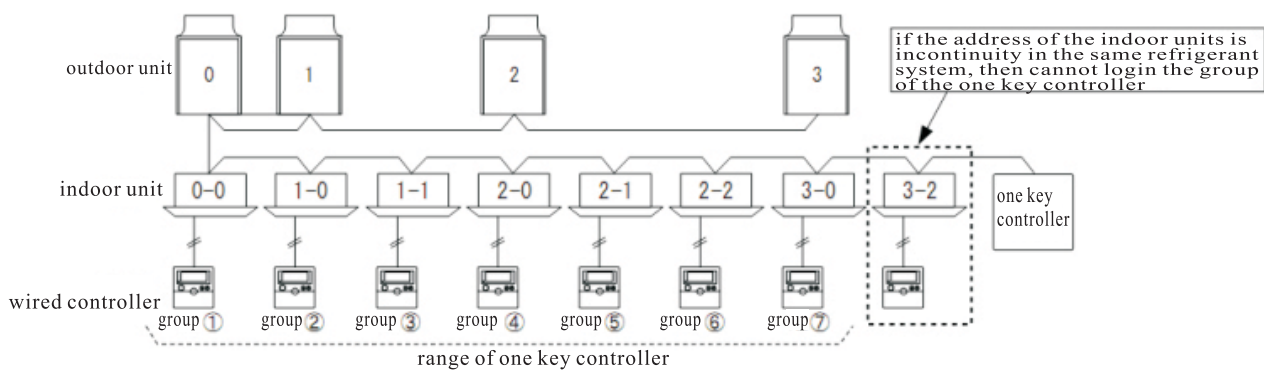
sample of group login

address of indoor unit \ address of refrigerant system	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	...	
0	①	②	③		④	⑤	⑥	⑦	⑧													
1								⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱					
2			③	④	⑤	⑥	⑦	⑧	⑨	⑩												
3																						
4	①	②	③	④	⑤	⑥	⑦	⑧														
5	⑨	⑩	⑪	⑫		①	②	③	④	⑤	⑥											
6	⑦	⑧																				
⋮																						

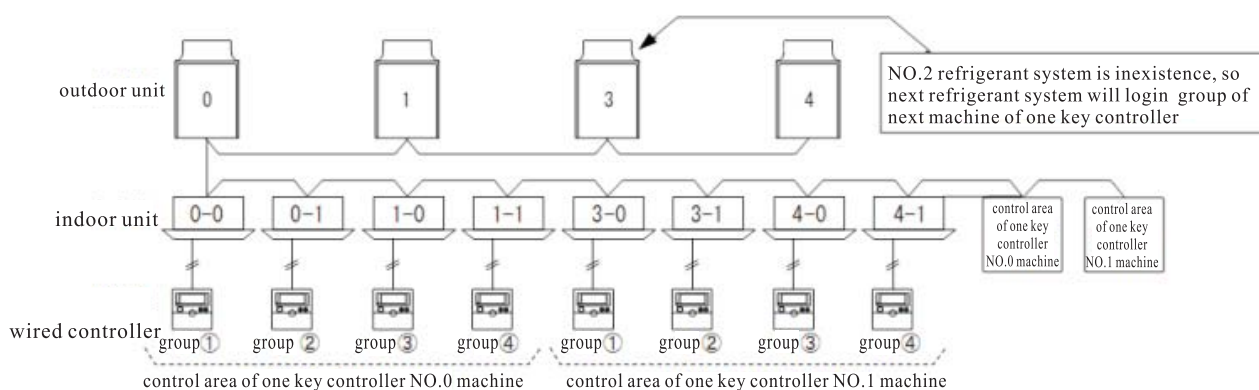
1~16 mean one key controller login locations

□2) Example of ground setting

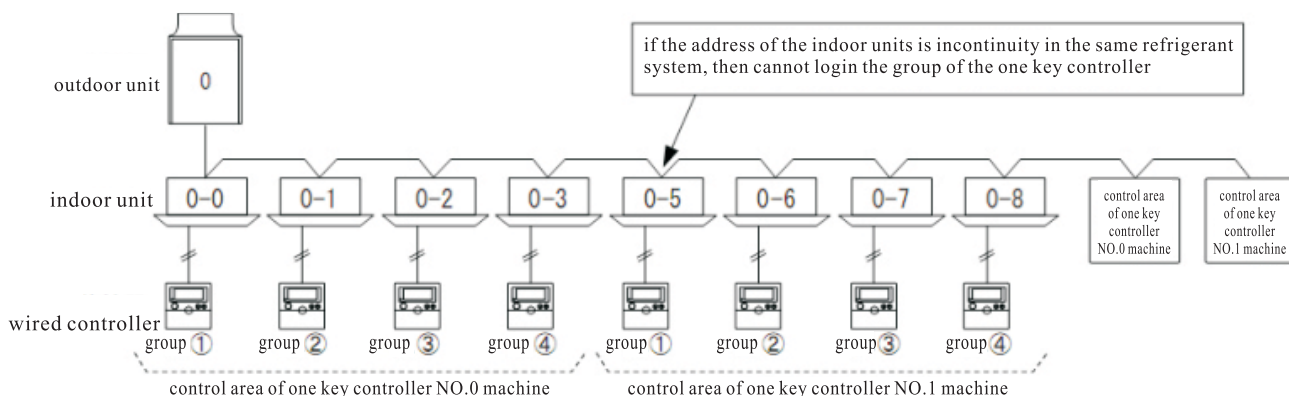
- (1) single one key controller connection



(2) several one key controllers connection

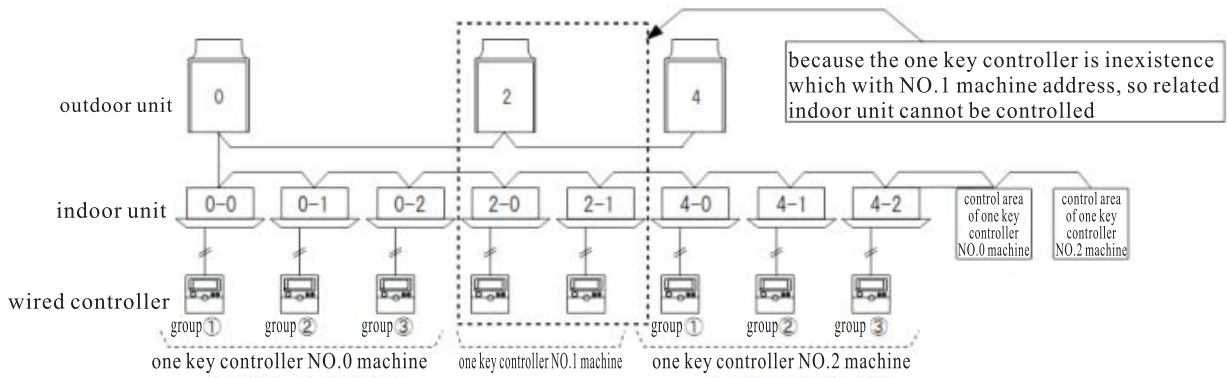


(3) Different connection of one key controllers in same refrigerant system

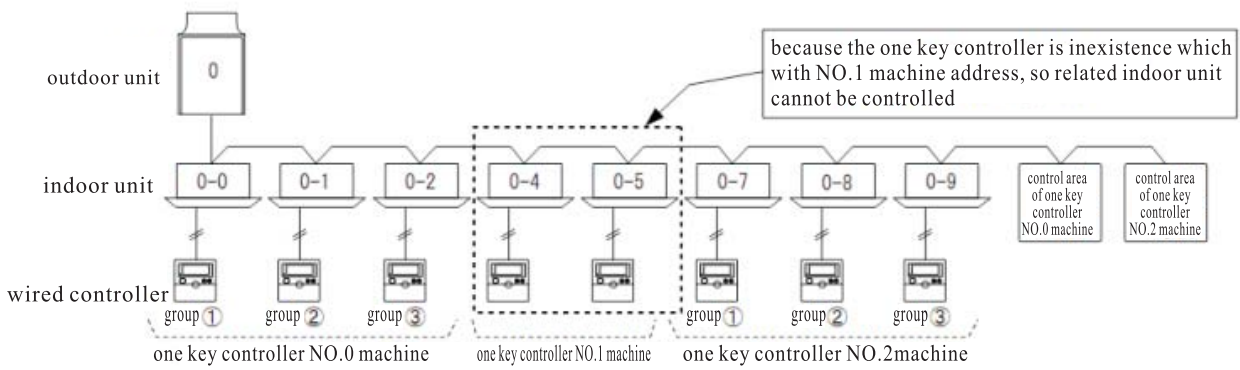


(4) Some of the indoor units do not use the one key controller in system, but can register via one key controller, cut the address of refrigerant system of indoor controller or address of indoor controller, Make it independent, in the meantime, corresponding one key controllers of this part of indoor unit have not been connected, so that this part of indoor unit will not be controlled by any one key controller in system

《refrigerant system address break off setting》



《indoor unit address setting break off》



4. External input function

Do not has this function as yet.

5. Main points of spot check

- preparation) • before use the power of one key controller, air-conditioning must be proceeded the test run.
- after air-conditioning test run, operate the wired controller and set the temperature by hand .
- (if cannot set the temperature or the wired controller cannot display the temperature, then the one key controller cannot operate, you must solve the trouble)

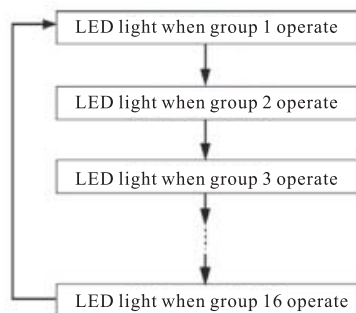
□1) the register of group proceed as below steps.

(1) after confirm the action of air-conditioning, then make the air-conditioning under the status of pro on.

(2) connect the one key controller power

(3) the LED on one key controller sequence to light, below figure is the process of register.

<process of LED operate>



When confirm the connection , the above LED will light by cycle.

After 16 groups in Address of refrigerating system finish register, operate LED reset.

※if all LED blink (0.25s on/0.25s off) , it means that the issue of indoor unit has not connect to wired controller has been detected, please stop the register of one key controller, check the system again, after debug all the breakdowns, register again.

□2) confirmation of group.

(1) please confirm the register of group proceed as above sequence

(2) please confirm the setting of group and register are consistent.

(3) if there is something wrong about setting of group or the connection, please cut the power and check again, refer to below content:

①forget to connect the power of indoor unit or poor connection

②wrong setting about indoor unit system no. or address

③wrong setting about one key controller address

(4) to connect the indoor unit、outdoor unit、one key controller correctly, power and register again

【operation of one key controller reset】

①when all groups stop, press 『15』 and 『16』 at the same time over 3s, group 『15』 and 『16』 operate and LED light.

②press button 『15』 和 『16』 at the same time again, LED of group 『6』 blink, press button 『2』 , LED of group 『6』 light always.

③after operation of one key controller reset finish, all the LED turn off, then group register again.

One key controller group registry form (two)

Address of indoor unit

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15						
00																						
01																						
02																						
03																						
04																						
05																						
06																						
07																						
08																						
09																						
10																						
11																						
12																						
13																						
14																						
15																						

Address of refrigerant system

※fill the form according to refrigerant system address and indoor unit address, use for grouping and confirmation

1 SAFETY SUMMARY

HISENSE cannot anticipate every possible circumstance that might involve a potential hazard.



DANGER

- **DO NOT pour water into the central controller. This product is equipped with electrical parts. If poured, it will cause a serious electrical shock.**
- **DO NOT perform installation work and electrical wiring Connection by yourself. Contact your HISENSE distributor or dealer and ask them for installation work and electrical wiring by service person.**



CAUTION

- **DO NOT install the indoor unit, outdoor unit, central Controller and cable at such places as:**
 - **Where there is oil vapor and the oil is dispersed.**
 - **Where the hot springs are near (in a sulfuric environment).**
 - **Where generation, flowing, staying or leaking of flammable gas is detected.**
 - **Where the sea is near (in the salty environment).**
 - **A place with humid atmosphere or there is possibility of water wetting.**
 - **A place of poorly ventilated.**
 - **An acid or alkaline environment.**
- **DO NOT install the indoor unit, outdoor unit, central controller and cable within approximately 3 meters from strong electromagnetic wave radiators such as medical equipment. In case that the central controller is installed in a place where there is electromagnetic wave radiation, shield the controller and cables by covering with the steel box and running the cable through the metal conduit tube.**
- **In case that there is electric noise at the power source for the indoor unit, provide a noise filter.**
- **Use specified cables to connect between indoor unit and remote control switch. Selecting incorrect cables may lead to fire or electrical shock.**



NOTE

- **The installer and system specialist shall comply with local regulations or standards for the safety. The following standards may be applicable, if local regulations are not available. International Organization for Standardization, ISO5149 or European Standard, EN378.**
- **Perform electrical work according to the Installation Manual. As for the electrical wiring work and check, turn OFF the main power supply before opening/closing the service cover of indoor unit. If service cover is opened with main power supply left on, it may result in an electrical shock.**
- **This manual should be considered as a permanent part of the air conditioning equipment and should remain with the air conditioning equipment.**
- **This appliance must be used only by adult and capable people, having received the technical information or instructions to handle this appliance properly and safely.**
- **Children should be supervised to ensure that they do not play with the appliance.**
- **Important: read and understand this manual before using this controller.**

If you have any questions, contact your HISENSE distributor or dealer.

2 GENERAL DATA

HYJM-S01H is the central controller for air conditioning system that controls and monitors maximum 160 indoor units.

2.1 MAIN FEATURES

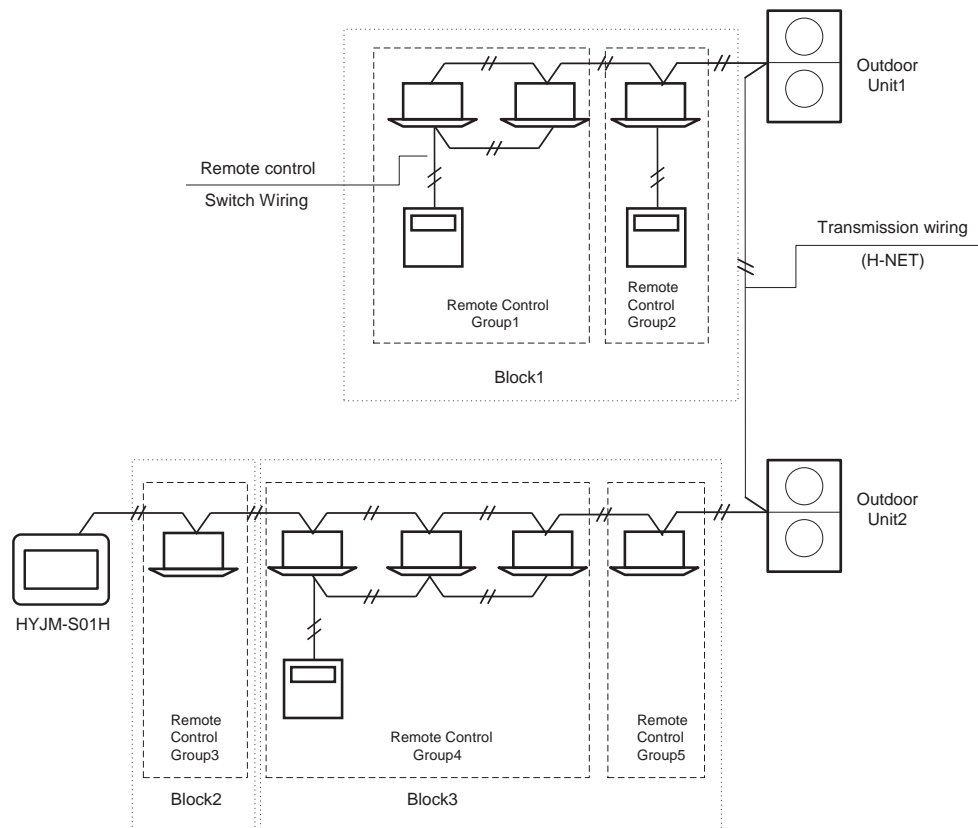
The following functions are available for the all indoor units which are connected to the central controller.

- 1 Run/Stop, Operation Mode Change, Fan Speed Control, Swing Louver Direction Control, ECO mode, Temperature limitation, Temperature Setting and Permitting/Prohibiting Operation by Remote Control Switch.
- 2 Monitoring of Operating Conditions for Block/Groups.
- 3 Schedule Operation (Run/Stop and Temperature Setting) for Block/Groups.
- 4 Run/Stop and Emergency Stop by External Input.
- 5 Run and Alarm Output by External Output.
- 6 Indication and Calculation of Unit Accumulated Operation Time of Each Unit.
- 7 Indication of Alarm History Record.
- 8 Registering Name of Blocks and Groups.
- 9 Registration and Indication of Service Contact Information.

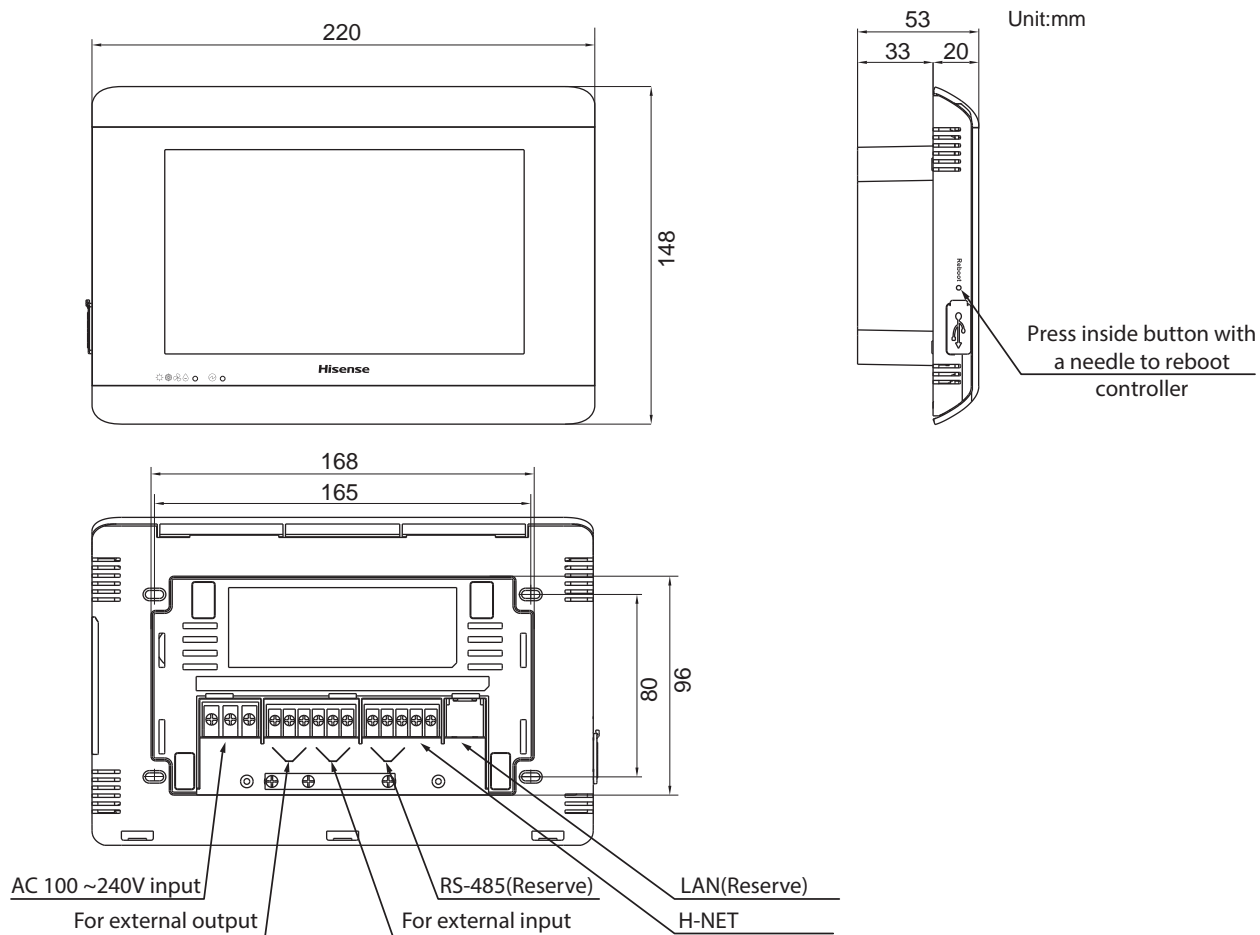


NOTE

- **Group: Remote Control Group**
- **Block: Collective of Remote Control Groups**



2.2 DIMENSIONAL DATA

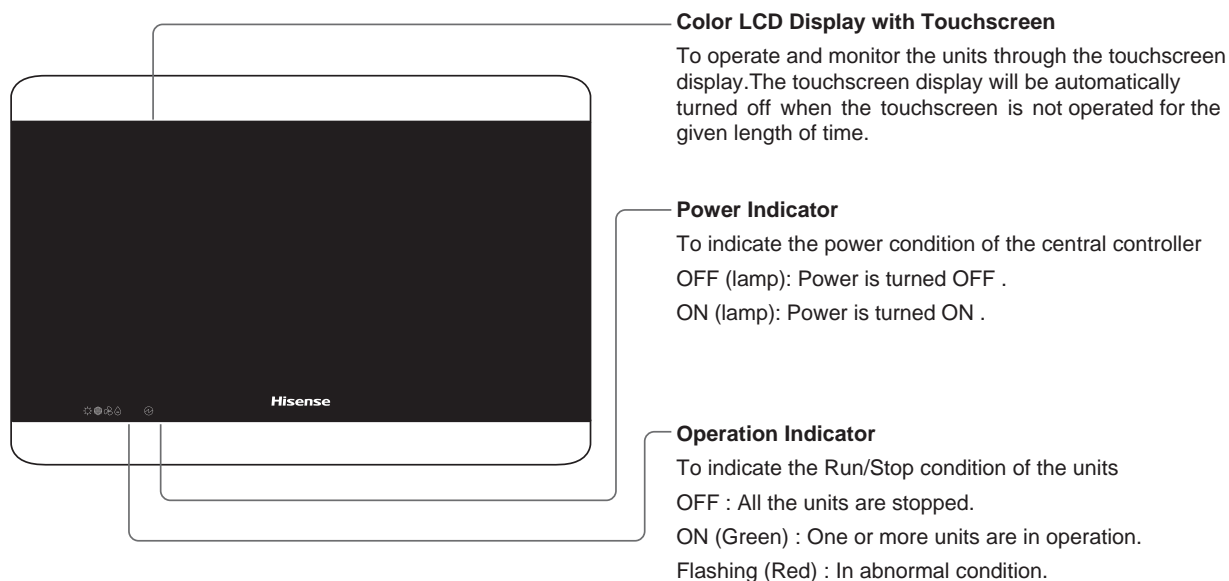


2.3 SPECIFICATION

Model	HYJM-S01H
Outer Dimension <W x H x D + (Built-in Part)>	220x148x20+33(mm)
Net Weight	0.68Kg(Approx.)
Installation Location	Indoor
Installation Method	Wall Built-in or Wall Surface Mounting
Connected Indoor Unit (Qty)	160 (Max.)
Clock Accuracy	± 70 Seconds/Month (at Normal Temperature)
Ambient temperature	5~35 °C
Ambient Humidity	35~90% (No Dew Condensation)
Display	7" TFT Color Liquid Crystal Display (1024 x 600 dots)
Rated Power Supply	1Φ, AC 100~240V, 50/60Hz
Electrical Power Consumption	13.5W (Max.)

3 PART NAMES AND FUNCTIONS

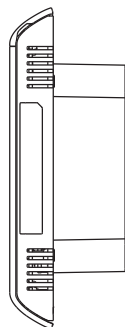
▪ Front Side



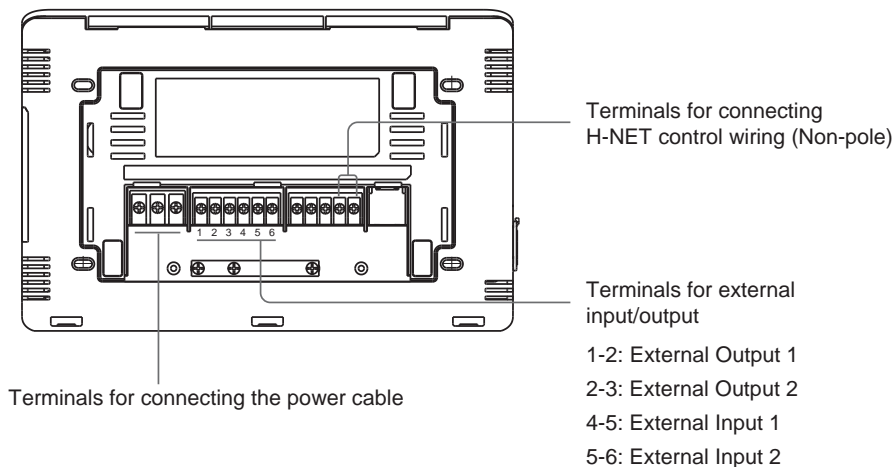
i NOTE

Remove the protection sheet on LCD (liquid crystal display) before using this product.

▪ Right Side



▪ Rear Side



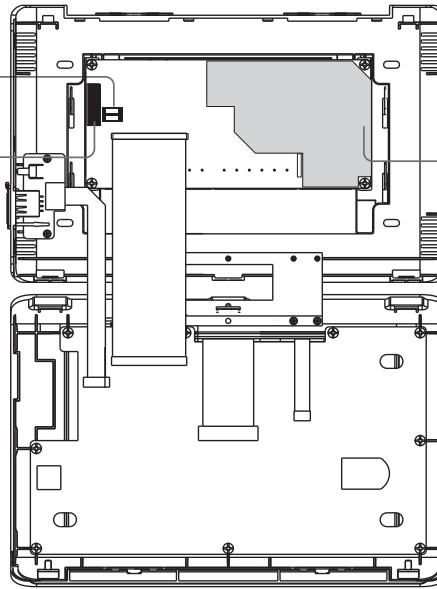
When Unit Body is opened

SP1

For terminating resistance
It is used for transmission line recovery.

Fuse for H-NET Transmission Line

For protection of H-NET transmission line



Fuse for Power Supply

For protection of power circuit



DO NOT remove the covers of marked with “” for safety. If remove these and touch inside, it may cause a serious electrical shock.

3.1 SCREEN DISPLAY

3.1.1 “AC Monitor(All Groups)”

Present Indication
To display the present indication (all groups)

AC Monitor (All Groups) 02-10-2017 10:20

	1st Meeting Room	2nd Meeting Room	3rd Meeting Room	4th Meeting Room	5th Meeting Room	6th Meeting Room	7th Meeting Room	8th Meeting Room
East Office	1st Office Room	2nd Office Room	3rd Office Room	4th Office Room	5th Office Room	6th Office Room	7th Office Room	
South Office	Group2-1	Group2-2	Group2-3	Group2-4	Group2-5	Group2-6	Group2-7	Group2-8
	Group2-9	Group2-10	Group2-11	Group2-12				
West Office	Group3-1	Group3-2	Group3-3	Group3-4	Group3-5	Group3-6	Group3-7	Group3-8
	Group3-9	Group3-10	Group3-11	Group3-12	Group3-13	Group3-14	Group3-15	Group3-16
North office	Group4-1	Group4-2	Group4-3	Group4-4	Group4-5	Group4-6	Group4-7	Group4-8
	Group4-9	Group4-10	Group4-11	Group4-12	Group4-13	Group4-14	Group4-15	

Block Button
To change the screen display into “Block” AC Monitor (Block) indication by touching this button.

Group Button
To indicate the operating condition of each group as follows:
Green : Run
Gray : Stop
Red : Abnormal
If the target group button is touched, “Settings” of the target group screen will be indicated. (Refer to Run/Stop for each group section)

“All Groups Stop” Button
To stop all the units simultaneously which are controlled by the central controller.

“All Groups Run” Button
To run all the units simultaneously which are controlled by the central controller.

“All Groups Setting” Button
To change the setting of the units simultaneously which are controlled by the central controller.

“All Groups ECO” Button
To start ECO mode of the units simultaneously which are controlled by the central controller.

“Menu” Button
To indicate the menu items such as “Filter Sign Reset”, “Schedule Setting”, etc.

“Alarm Info.” Button
To indicate the abnormality. Tap the button for details.

3.1.2 “AC Monitor(Block)”

Present Indication
To display the present indication (groups in block)

Block Tab
To change the monitor display into “Block” or “All Groups” indication.

Group Button
To indicate the operating condition
Green: Run
Gray: Stop
Red: Abnormal
If the target group button is touched, “Settings” of the target group screen will be indicated.

“Stop by Block” Button
To stop the all groups operation in the target block simultaneously.

“Run by Block” Button
To run the all groups operation in the target block simultaneously.

“Setting by Block” Button
To change the setting of the all groups in the target block simultaneously.

“ECO by Block” Button
To start ECO mode of the all groups in the target block simultaneously.

“Menu” Button
To indicate the menu items such as “Filter Sign Reset”, “Schedule Setting”, etc.

“Alarm Info.” Button
To indicate the abnormality Tap the button for details.

3.2 DISPLAY OF SERVICE MENU SCREEN

1 Touch “Menu” on screen of AC Monitor(All Groups) or AC Monitor (Block) at least 5 seconds.“Service Menu” is displayed.

AC Monitor (All Groups)

AC Monitor (Block)

2 Select the service menu item by touching each item button. The setting screen of touched item will be displayed.

Service Menu

i NOTE

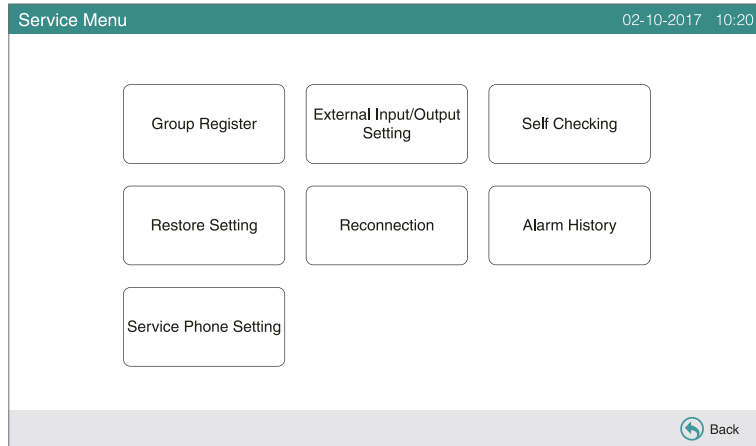
Following items are available only when none of the air conditioners (connected to the central controller) is being operated.

* External Input/Output Setting

Stop the operation of all indoor units when selecting the items above.

3.3 EXIT SERVICE MENU SCREEN

Touch "Back" on "Service Menu" to return to AC Monitor (All Groups) or AC Monitor (Block).



3.4 QUICK REFERENCE

The table below shows the display on the screen and its function structure.

Screen Display		Function
AC Monitor (All Groups)		To display the name of all groups and operating conditions.
AC Monitor (Block)		To display the name of groups in the block and operating conditions.
Menu		To display the list of menu items.
Filter Sign Reset		To reset the filter sign.
Schedule Setting	Schedule Timer Setting	To set or change the weekly schedule.
		To copy the schedule setting.
		To delete the schedule timer setting.
	Holiday Setting	To specify days of suspended schedule setting.
Schedule Timer ON/OFF Setting		To set schedule operation ON/OFF.
Date & Time		To adjust the date and time.
Touchscreen Cleaning		To lock the touchscreen for cleaning.
		To register the name of block and group.
		To copy the name of block and group.
Screen Display Setting	Brightness	To adjust the backlight brightness of display screen.
	Temperature Unit	To set the temperature unit.
Accumulated Operation Time		To display the accumulated operation time of the unit.
Contact Information		To display the service contac.
Language Setting		To set the displayed language.
ECO Setting		To set the temperature and fan speed of ECO mode.

3.5 FUNCTIONS

The table below shows the main functions.

Operation Procedure	Menu Function
Display of All Groups (All the indoor central controllers.)	Menu(Menu Items and Details)
Display of Specified Block (All the remote control groups in the block which are connected to the central controlle.)	Filter Sign Reset
Simultaneous Run/Stop for All Group	Schedule Operation
Simultaneous Run/Stop for Block	Adjusting Date/Time
Run/Stop for Each Group	Touchscreen Cleaning
Operation Mode Change	Registering Groups/Blocks Name
Fan Speed Setting	Screen Display Setting
Swing Louver Direction	Accumulated Operation Time of Unit
Setting Temperature	Contact Information
Permitting/Prohibiting Operation from Remote Control Switch	Language Setting
Start ECO/Set Temperature Limitation	ECO Setting

4 INSTALLATION WORK

4.1 SELECTION OF INSTALLATION PLACE

Select a suitable place for handling and determine the installation place of the central controller with the customer's acceptance. Do not install the central controller at such places as:


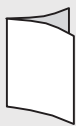
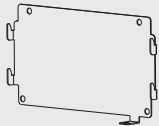


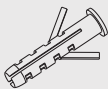


- Where children can touch.
- Where the air from the air conditioner is directly discharged.

Prior to the installation work, ensure that foundation is flat, level and sufficiently strong and then fix the unit securely. If the foundation is not strong enough, it may lead to injuries caused by falling of the product, electrical shock or fire.

4.2 BEFORE INSTALLATION

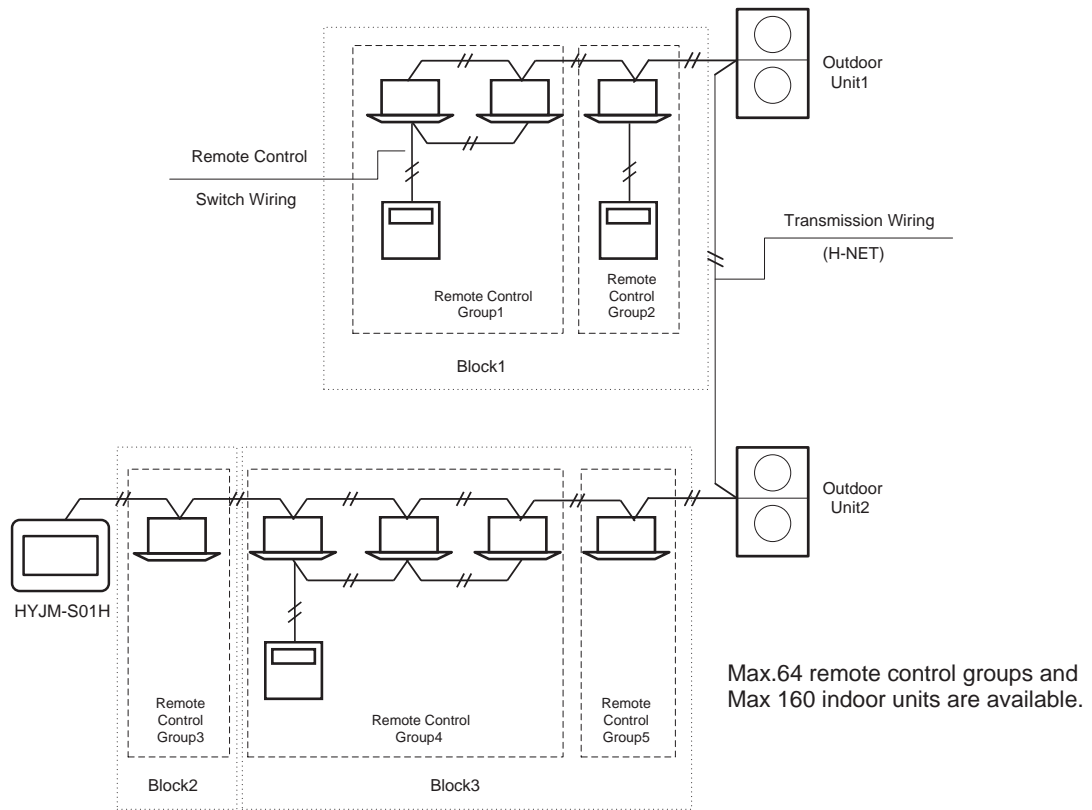
When unpacking central controller HYJM-S01H, check that it has not suffered damage during transport.

Check to ensure that the following parts are packed with the central controller.

Item	Central Controller HYJM-S01H	Installation and Operations Manual	Wall Mounting Metal Plate	Screw
Apperance				 M3x 20mm
Q'ty	1	1	1	4
Item	Screw	Plastic Expansion Bolt	Battery	Magnetic Ring
Apperance	 M3.5x 25mm			
Q'ty	4	4	1	1

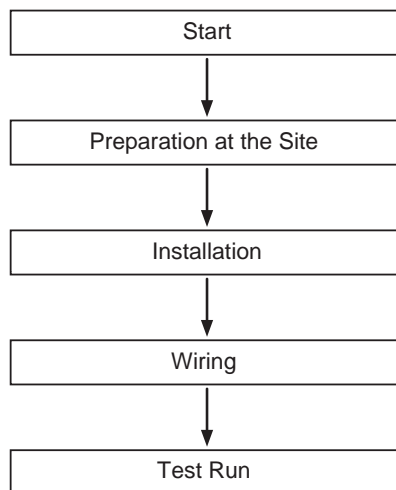
4.3 SYSTEM CONFIGURATION

This central controller (HYJM-S01H) is connected to H-NET and used for the central control and monitoring of the air conditioners. The system configuration example is shown in below.



4.4 INSTALLATION PROCEDURE

The installation procedure shall be performed as shown below.



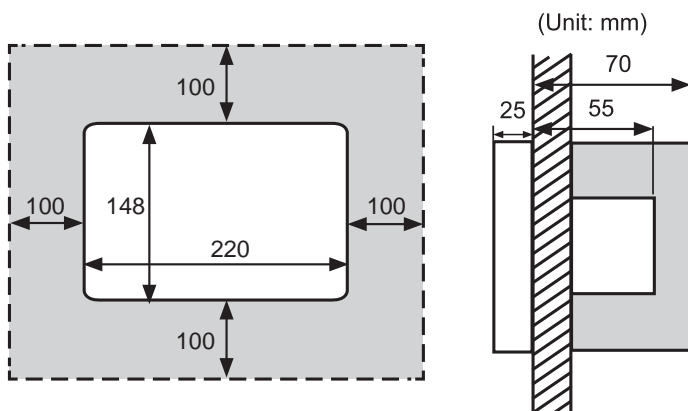
4.4.1 Preparation at the site

Before installing a controller, prepare the following items.

Parts	Specification
Switch Box	Switch Box for 7" touchscreen(non-essential for Wall Surface Mounting)
Power Supply Cable	Cable SPEC: 0.75 mm ² Recommended Cable: 600V CV, CCV, CEV
H-NET Cable (For Control)	Cable SPEC: 0.75 mm ² Recommended Cable:Twist Pair Cable with Shield, Over 0.75 mm ²

4.4.2 Installation space

Keep the installation space for the central controller as shown below.

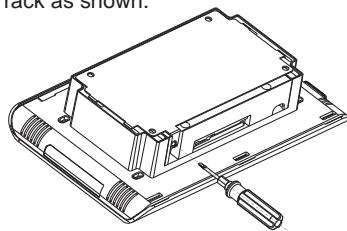


Do not attach anything in the half-tone screen area . When installing central controller near other devices in row or in line, keep the space between each.
 * Vertical Direction: 100mm
 * Horizontal Direction: 100mm

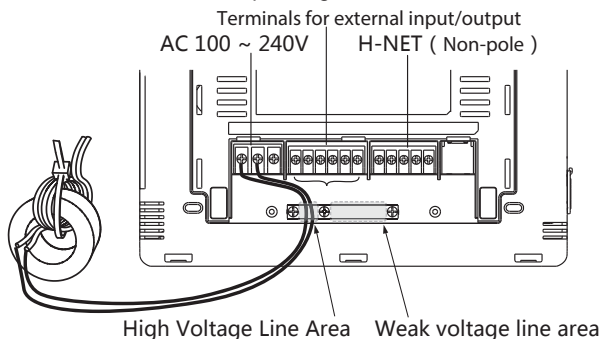
4.4.3 Installation method

Wall Built-in:

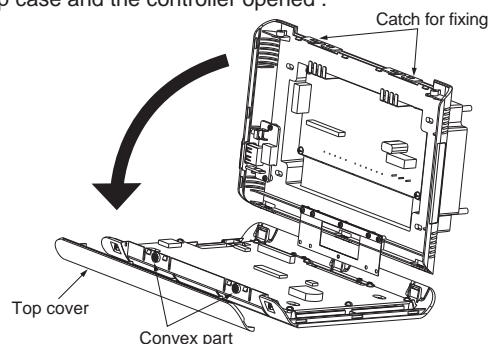
1. Install the switch box into the wall.
2. Take off the rack as shown.



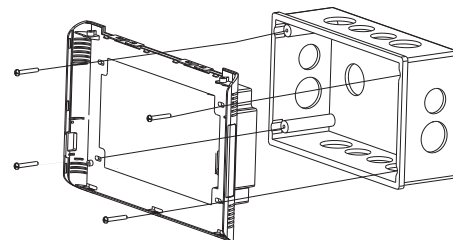
3. Open the terminal cover, and connect the wiring to the terminal of controller.
 - a. The power cable is wound around the magnet ring 3 times and finally the cable and magnet ring are fixed with tie band.
 - b. The external input and output signal wires are respectively connected to the corresponding terminals.



4. When the connection is finished, the strong and weak wires are separated by a press plate and fixed as illustrated.
5. Cover the rear cover and fix the cover with 2 screws (M3x 6mm).
6. Open the unit body as shown below.
 - a. Open the top cover of unit body.
 - b. While pressing the convex part (2 portions), pull the top case and the controller opened .



7. Fix the switch box by accessory fixing screw (M3 x 20mm).

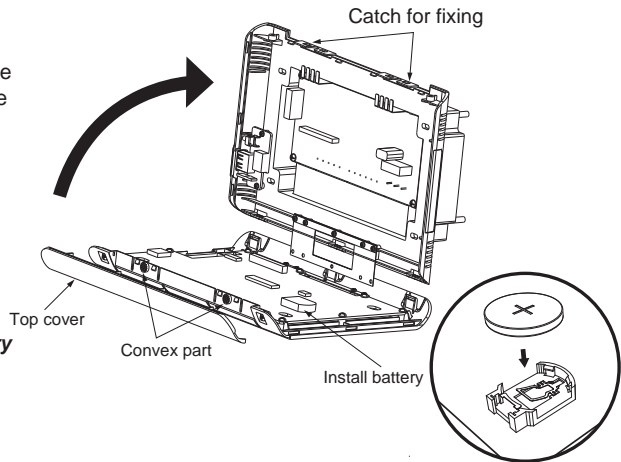


8. Install the battery as shown.

9. Close the unit body until hearing snapping sound, and make sure if the top and bottom close fully. At this time, check if the top side cover is fixed and closed firmly.

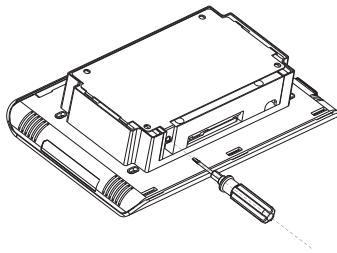
i NOTE

The life cycle of battery is 1-2 years. Please change the battery after running out.

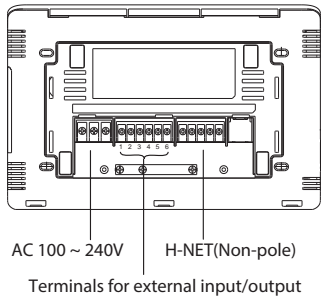


Wall Surface Mounting:

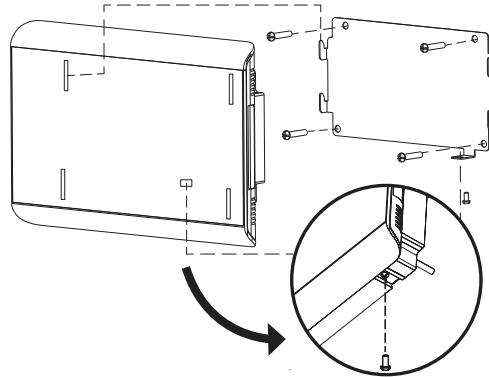
1. Take off the rack as shown.



2. Open the terminal cover, and connect the wiring to the terminal of controller.



3. When the connection is finished, the wires shall be fixed with a press plate.
4. Cover the rear cover and fix the cover with 2 screws (M3x6mm).
5. Install the battery. (The installation method as above).
6. Close the terminal cover. Fix the rack by accessory fixing screw (M3.5 x 25mm).



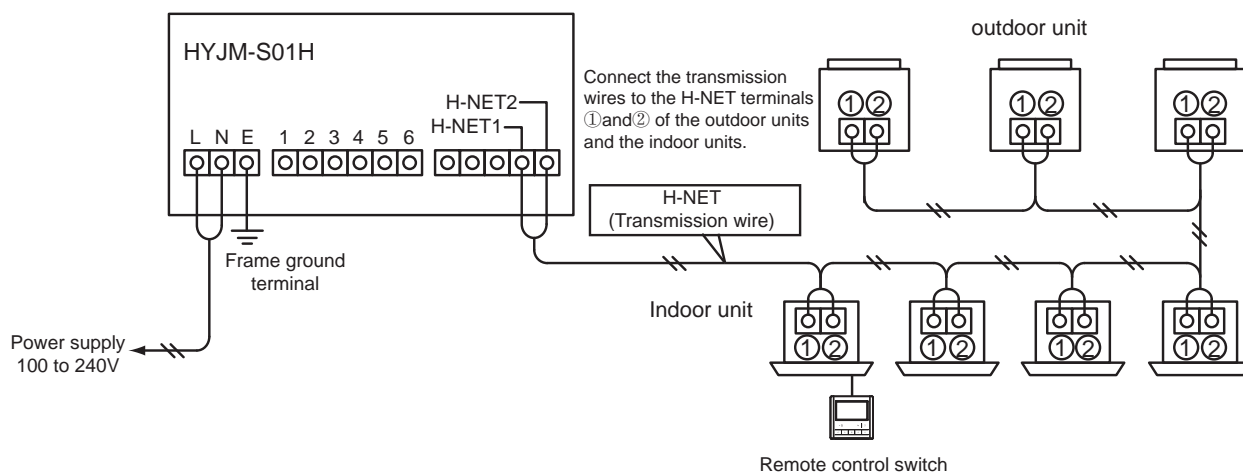
7. Hang the controller on the rack. Fix the controller by accessory fixing screw (M3 x 6mm).

Switch setting:

Control Board Coding Switch SC1	Power Board Coding Switch SP1	Communication Board Coding Switch S1
<p>Factory defaults: 1 OFF 2 OFF 3 ON 4 ON 5 ON</p>	<p>Factory defaults: 1 OFF 2 OFF</p> <p>1 ON After the fuse failure though the code shield can continue to use</p> <p>2 ON Connect the terminating resistor and capacity to the H-NET communication line</p>	<p>Factory defaults: 1 ON 2 OFF</p>
Control Board Coding Switch SC2	Power Board Coding Switch SP2	Communication Board Coding Switch S2
<p>Factory defaults: 1 OFF 2 ON</p>	<p>Factory defaults: 1 OFF 2 OFF</p> <p>1 ON 2 ON Connect the terminating resistor to the RS485 communication line</p>	<p>Factory defaults: 1 OFF 2 OFF</p>

4.5 ELECTRICAL WIRING

- 1.This central controller (HYJM-S01H) requires wiring work of the power supply cable,air conditioner,and control wiring(H-NET).
- 2.Wiring Method.



Type of wiring	Specification	Length of	Cable	Recommended cable
Power supply cable	AC100~240V		0.75 mm ²	
Earth wiring			0.75 mm ²	
H-NET (Control Wire)	DC5V	<1000m	0.75 mm ²	Twist pair cable with shield
Wiring for external input and output	Input: Non-voltage normal open Output:DC 12V,75mA		0.75 mm ²	

i NOTE

- The central controller may break down by an incorrect wiring.
- The transmission wires are required to be separated from the power supply wiring and other electrical device wiring. Keep at least 30cm between transmission wiring and the power supply wiring. If the above is not secured, put the power supply wirings and transmission wirings into the each metal conduit tube separately. The one side of the metal conduit tubes should be earthed for noise reduction.
- Do not connect the power supply wiring to the terminals for transmission. However, if the power supply wires are connected incorrectly, the fuse of the printed circuit board will blow out for protection. In this case, turn on the SP1-1 pin on the printed circuit board for unfused emergency operation.
- Remove the earth wiring of "E" terminal securely when the insulating capacity test or the withstand voltage test is performed. If the above is not secured, it may cause of breaking down of the central controller.

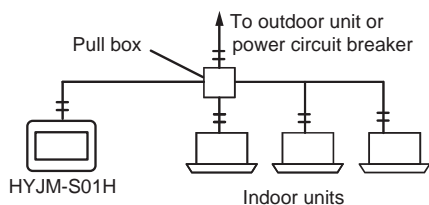
Main breaker switch

Model	Supply voltage	Maximum current (A)	ELB(1)		CB(2)
			Rated current (A)	Sensitivity (mA)	Rated current
HYJM-S01H	100~240 V 50/60 Hz	5	40	30	5

* (1) ELB: earth leakage breaker (field-supplied) (2) CB: circuit breaker (field-supplied)

! CAUTION

On using AC200V ~ 240V for power supply.



- In the case of power supply voltage is 200V ~ 240V, diverge the main power supply cables by using the pull box as shown in the figure. (As for the power cables between the indoor units, refer to the technical catalog, etc.).
- The electricity supply to the unit should be via an exclusive power control switch and protective circuit breaker, certified and installed in accordance with local or national safety regulations.


Use an earth leakage breaker with medium sensitivity, and an activation speed of 0.1 or less. If this is not fitted, there is a risk of electric shock and/or fire.

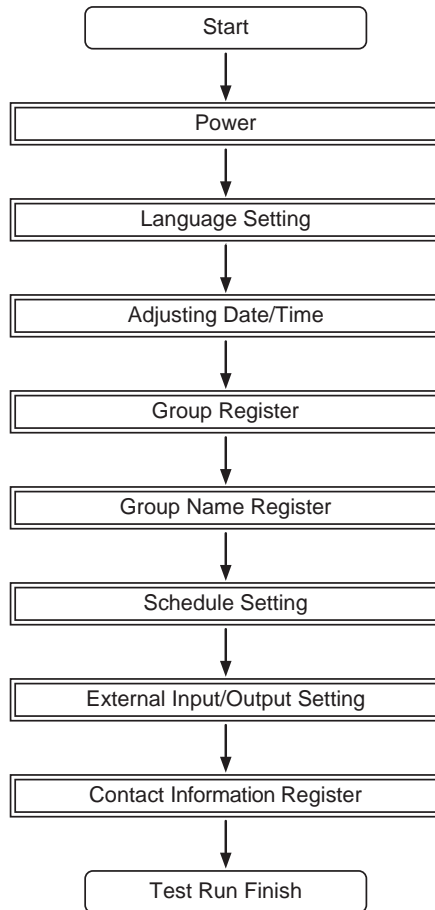
Install an earth leakage breaker, fuse and circuit breaker for each outdoor unit power line. Not fitting it may cause an electric shock or fire.



- *Turn OFF the main power switch for the indoor units, outdoor units, and central controller before the electrical wiring work is performed. If not, it may cause a fire, electrical shock or device breaking down.*
- *Do not use cables that are lighter than the normal flexible coated polychloroprene cable.*

5 TEST RUN PROCEDURE

The outline of the test run procedure is indicated as shown in the figure. The marked of “” are required items.



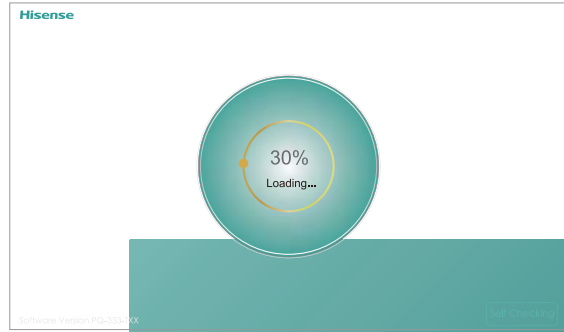
5.1 LIST OF ITEMS

Item	Function
Language Setting	This function is used for language selection.
Date&Time	This function is used for adjusting the date and time.
Group Register	The connected indoor units are checked by the central controller in the same H-NET. This function is used for the group or block registration of them.
Name Register	This function is used for registering name of the block and group. The registrable number of letters are maximum 2 letters for the name of each block or group. It is also available to copy the name. If the group/block is registered without name, it will be registered as "Group 1-1" or "Block 1" automatically.
Schedule Setting	This function is used for scheduled timer operation which is possible to set by each group or block.
Schedule Timer Setting	This function is used for setting the time (by the minute), "Run/Stop" and temperature (19°C~30°C). For weekly schedule setting, up to 10 schedule items can be set per day. It is also available to copy the setting.
Holiday Setting	This function is used for suspending the schedule operation temporarily. The schedule operation will not be available when this function is set. This function is used for setting irregular holidays such as national holidays.
Schedule Timer ON/OFF Setting	"Schedule Timer OFF Setting" is used for suspending the schedule operation for the target group. The schedule operation will not be available when Schedule Timer is OFF. This function is used for a long holiday.
External Input/Output Setting	Two (2) external input terminals and two (2) external output terminals are equipped in the central controller. These terminals are used for "All Groups Run/Stop" and "Emergency Stop" operations for the connected air conditioners. The external output terminals are used for the operation signal output or alarm signal output of the air conditioners which is connected to the central controller.
Contact Information Register	This function is used for editing the contents of contact information registration.
Restore Setting	This function is used for restoring all the settings such as registered Groups (Blocks) and schedules.
Reconnection	This function is used for checking of the connected indoor unit numbers in the same H-NET.
Alarm History	This function is used for displaying the list of alarm history that occurred in the air conditioner and the controller. (Maximum 160 records)

5.2 INITIAL POWER ACTIVATION SETTING

Supply power to the Unit

Turn on the power supply of the air conditioners.
 Perform after checking of each air conditioner has test run and confirming all the air conditioners operates normally.
 Turn on the power supply of the central controller.
 "Loading" will be displayed for a while and the screen changes to AC Monitor.



5.3 LANGUAGE SETTING

Several minutes later after turning ON the power supply, the language setting screen is displayed on the touchscreen as shown in the figure.

(When the power supply is turned ON at the first time.)

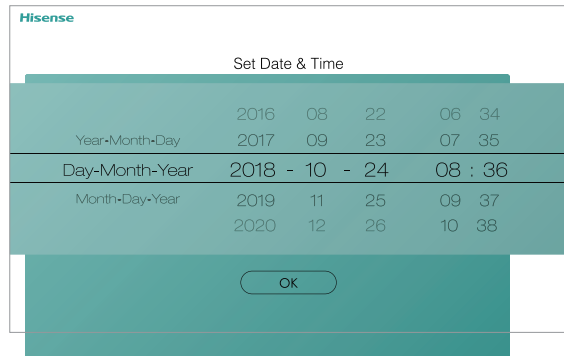
Select the using language for operation and touch "OK".



5.4 SET DATE&TIME

After language setting, the setting date & time screen is displayed on the touchscreen as shown in the figure. (When the power supply is turned ON at the first time.)

After setting the date and time, touch "OK" on the touchscreen display.



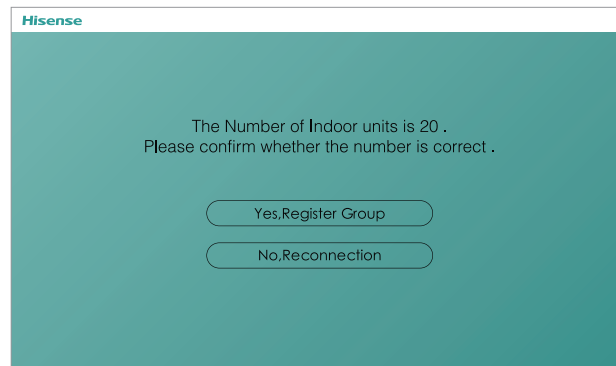
5.5 GROUP REGISTER

Register the indoor units confirmed for connection to the group (block) of the central controller. Confirm the number of the units. (When the power supply is turned ON at the first time.)

Touch "Yes" on the touchscreen and the setting screen is displayed.

Touch "No" on the touchscreen, the controller will connect to the units again.

The registrable number of letters are maximum 20 for the name of the group (block).



Group and Block

- *Group (Remote Control Switch Group):*

Group is the minimum operation unit from the central controller. Multiple indoor units (Max. 16 units) connected by the transmission wiring is a group. The indoor unit without remote is also a group. The indoor unit in the same group are controlled the same operation. Maximum of 64 groups (4 blocks x 16 groups) can be controlled by one central controller.

- *Block:*

Operation unit of the groups. Maximum of 16 groups can be registered within one (1) block. Maximum of 4 blocks can be controlled by one central controller.

- *Main Unit:*

The main unit registration is available for the only one indoor unit per one group. The control command is sent from the central controller to the main unit for the group.

- *Sub Unit:*

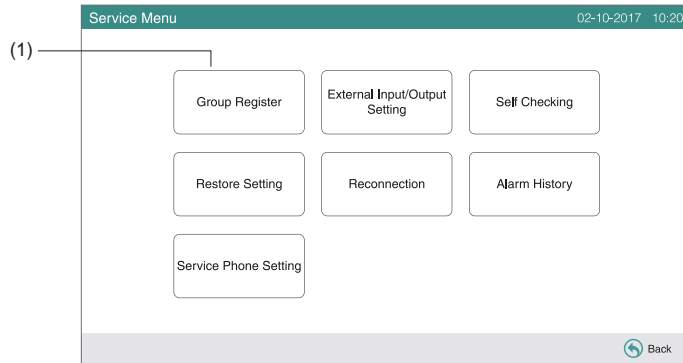
The indoor unit that except the main unit in the same group. They are controlled by the same operation with the main unit.

Unit Registration

- The unit registration is available for the only one main indoor unit per one group. Thus, duplicate registration of the main unit is not possible into the same group.
- The units without remote control switch, one indoor unit equals one group.

5.5.1 GROUP REGISTER

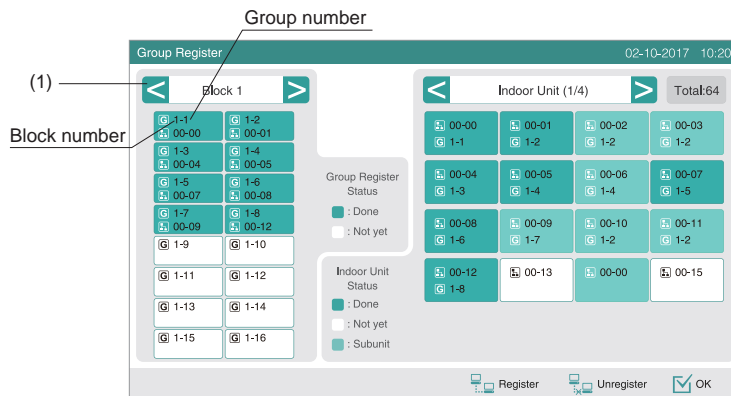
1. Select "Group Register" on the screen of "Service Menu".



i NOTE

This function cannot be selected when the external input signal is input to the external input terminal 1 or 2.

1. Select group for unit to register.
 - When touching "<" or ">" on the upper left of the touchscreen, the block display is switched.
 - The information of Block No and Group No are indicated in the button as "Block Number - Group Number".
 - Select the group button by touching. The selected button is marked. If the selected group button is touching again, the group selection will be canceled.

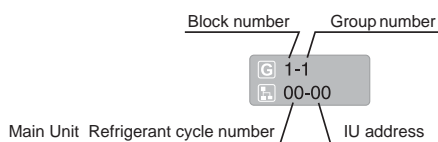


2. Select the indoor unit for register.
 - Tap "<" or ">" on the upper right of the touchscreen, the display of indoor units is switched.
 - The information of the refrigerant cycle No. and indoor unit address are indicated in the indoor unit button as "Refrigerant Cycle No-Indoor Unit Address".
 - Select the indoor unit button by touching. The selected button is marked. If the selected button is touching again, the indoor unit selection is canceled.
 - Sub unit can be registered automatically with its main unit.

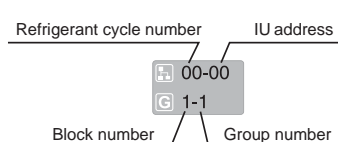
3. Touch "Register" to register the unit while the group and indoor unit are selected.

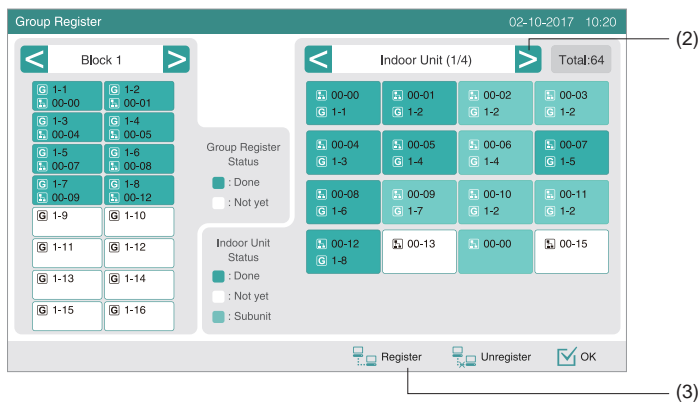
- The information is indicated in the buttons as below.

- "Group" Button

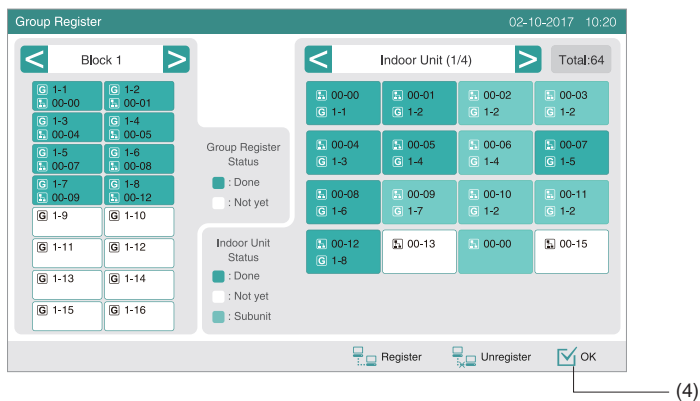


- "Indoor Unit" Button





4. Touch "OK" on "Group Register" to return the screen of "Service Menu".



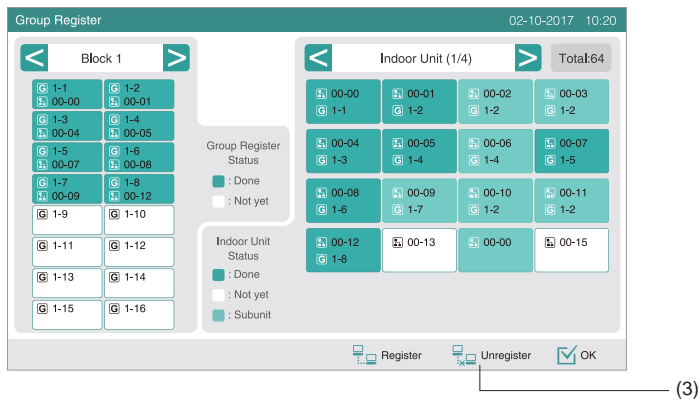
5.5.2 How to unregister group

1. Select "Group Register" on the screen of "Service Menu". Refer to item How to register group.

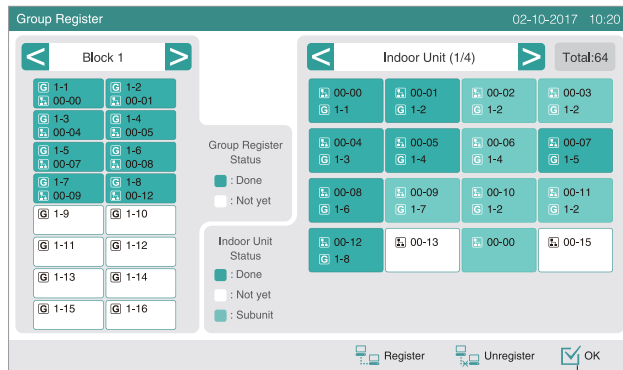


This function cannot be selected when the external input signal is input to the external input terminal 1 or 2.

2. Select group to unregister.
 - When touching "<" or ">" on the upper left of the touchscreen, the block display is switched.
 - Select the group button by touching. The selected button is marked. If the selected group button is touching again, the group selection will be canceled.
3. Touching "Unregister" and group register is unregistered. The button color of the group and the indoor unit turn to white.



4. Touch "OK" to return to screen of "Service Menu".



5.6 SCHEDULE OPERATION

This function is used for the timer operation. The schedule setting is possible to set for the block and each group. Holiday setting that does not activate the schedule is also available. Refer to the chapter Schedule Operation for details.

5.7 EXTERNAL INPUT/OUTPUT SETTING

The external input/output each of two terminals are available. The assigned functions are shown in below.

Input and Output	Function	
Input 1	All Run/Stop (Level)(Input 1 Factory Setting) All Run (Pulse)	Emergency Stop (Level) (Input 2 Factory Setting) No Setting
Input 2	All Stop (Pulse)	
Output 1	All Run (Output 1 Factory Setting) Alarm(Output 2 Factory Setting) No Setting	
Output 2		

External Input Function

- 1 All Run/Stop (Level)

All groups simultaneously Run/Stop operation by the external input signal

- 2 All Run (Pulse)

All groups simultaneously Run operation by the external pulse input signal

- 3 All Stop (Pulse)

All groups simultaneously Stop operation by the external pulse signal input

- 4 Emergency Stop (Level)

All groups simultaneously Stop operating on receiving an external emergency stop signal. While an "Emergency Stop" is performed, the LCD of the remote control switch displays "Central Control" and the operation cannot be changed from the remote control switch.

External Output Function

- 1 All Run Output

External output for indoor unit operation signal in the target group.

- 2 External Output Alarm

External output alarm signal for indoor unit in the target group. The alarm signal outputs even if one indoor unit abnormality occurs in the target group.

External Input/Output Terminals Specification

Input Terminal:

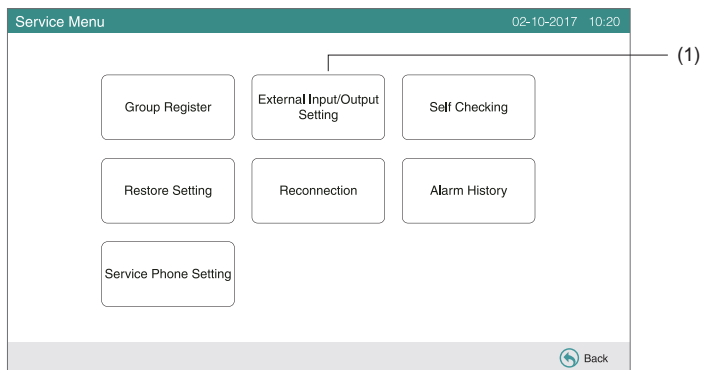
Non-voltage contact (normal open) for signal Input DC12V, 10mA. The switching of the contact is available.

Pulse width is 100ms or more for pulse signal input.

Output Terminal:

Contact (voltage is applied) for signal Output DC12V.

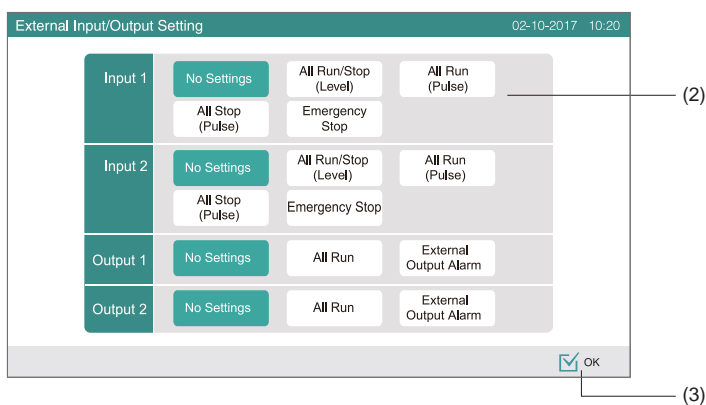
- 1 Select "External Input/Output Setting" on the screen of "Service Menu".



i NOTE

This function cannot be selected when the air conditioner(s) is operated or the external input signal is input to the external input terminal 1 or 2.

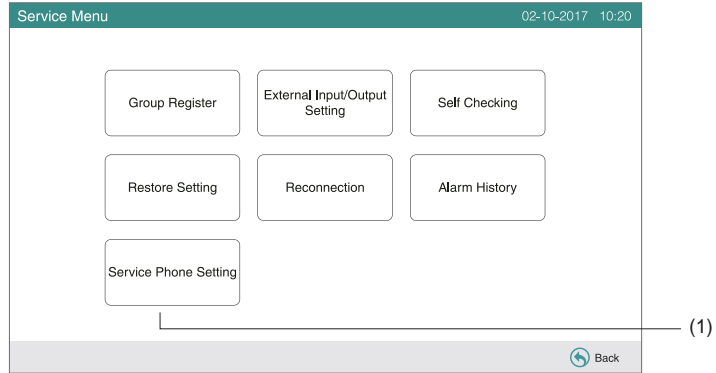
- 2 Select the function by touching the button for each external input/output terminal as follows: "Input 1", "Input 2", "Output 1" and "Output 2".
The selected function button color is changed.
- 3 Touch "OK" to finish this setting. The screen is returned to "Service Menu".



5.8 CONTACT INFORMATION REGISTER

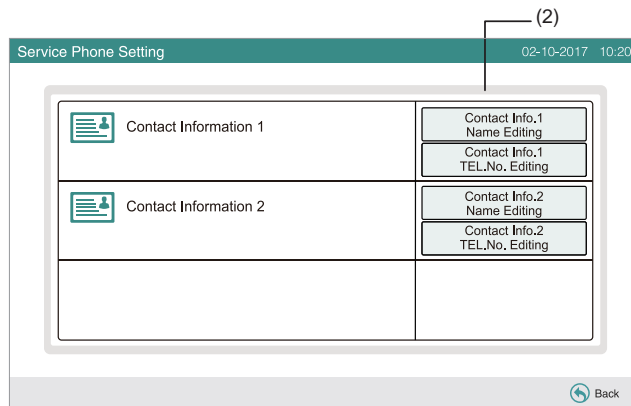
The contact information editing or registering for “Contact Info. Register” indication function.

- 1 Select “Service Phone Setting” on the screen of “Service Menu”.

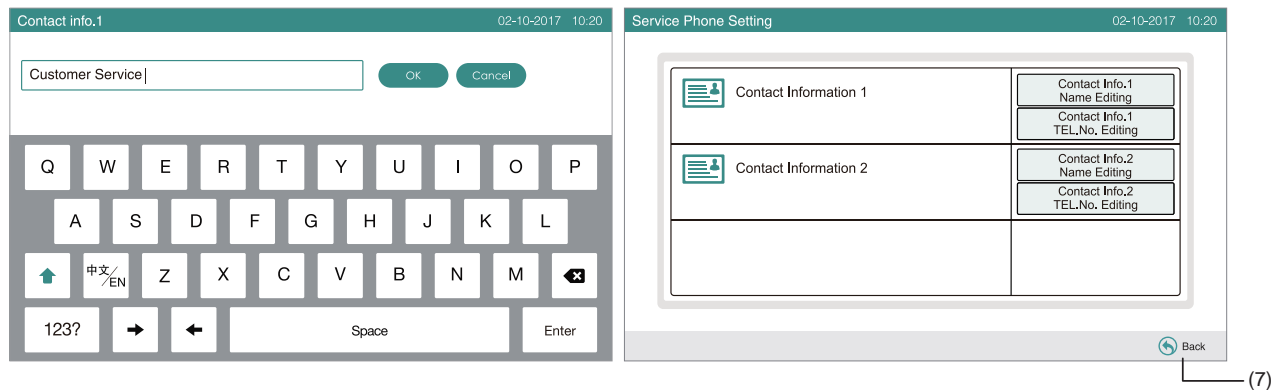


- 2 Select “Contact Info. 1 Name Editing” or “Contact Info. 1 TEL. No. Editing” to register the information.

- 3 Select the characters to input from the keyboard.



- 4 Input the information. Max. 20 characters are available to input.
- 5 Touch “OK” to finish. The screen is returned to “Service Phone Setting”.
- 6 Proceed to register the contact information depending on the setting afterwards.
 - Continue to register or edit the contact information. (2)
 - Finish this setting. (7)
- 7 Touch “Back” to finish this setting. The screen is returned to “Service Menu”.

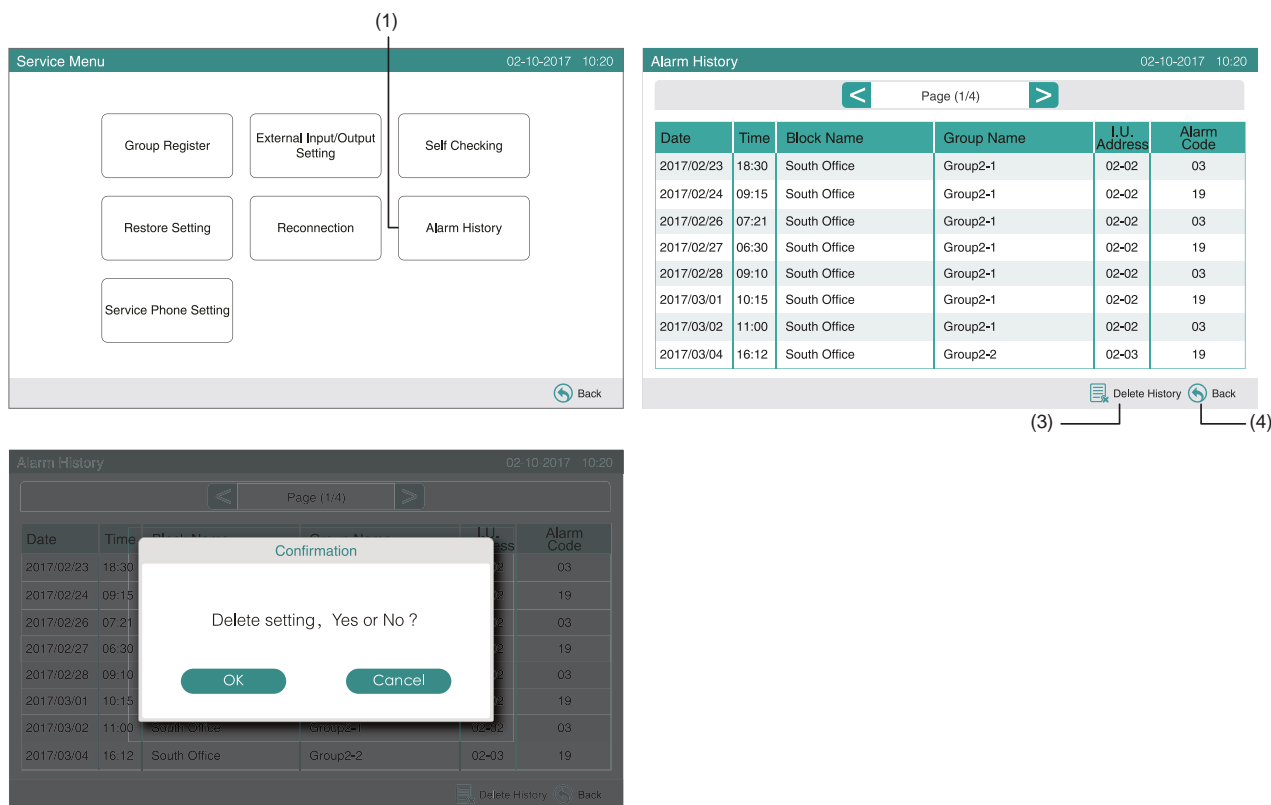


5.9 ALARM HISTORY

The alarm history record of the air conditioner and the central controller.

The time of alarm occurrence, abnormal unit and alarm code are recorded, and the alarm history record deleting is performed by this function.

- 1 Select "Alarm History" on the screen of "Service Menu".
- 2 "Alarm History" screen is indicated.
 - Maximum 160 records can be stored in the memory.
- 3 When deleting alarm history record, touch "Delete History". When touch " OK " at the confirmation screen, all alarm history records are deleted.
 - If touch " Cancel ", the screen will be returned to "Alarm History".
- 4 Touch "Back" to finish this setting. The screen is returned to "Service Menu".



5.10 RESTORE SETTING

1. Select "Restore Setting" on the screen of "Service Menu".



NOTE

This function cannot be selected when "Remote Operation Prohibited" is set.

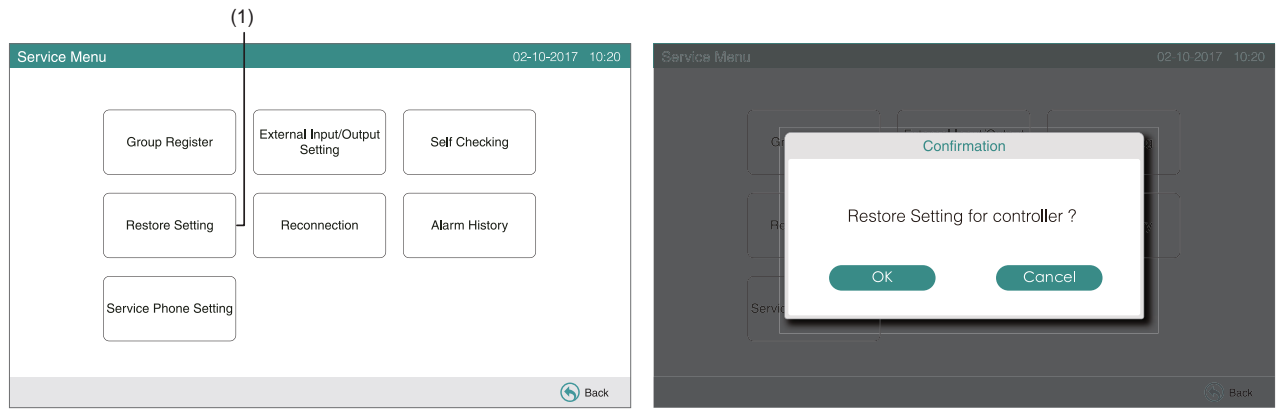
2. Touch "OK" at the confirmation screen.



NOTE

If "Cancel" is tapped, the screen will be returned to "Service Menu".

3. After several seconds, the screen is changed and the connection check of the system is started.



6 OPERATION PROCEDURE

6.1 DISPLAY OF ALL GROUPS

1. Touch "All Groups" on the touchscreen display.



2. All groups are displayed on the touchscreen. (All indoor units connected to the central controller will be indicated). Each operation status is indicated by color of the group button as follows:



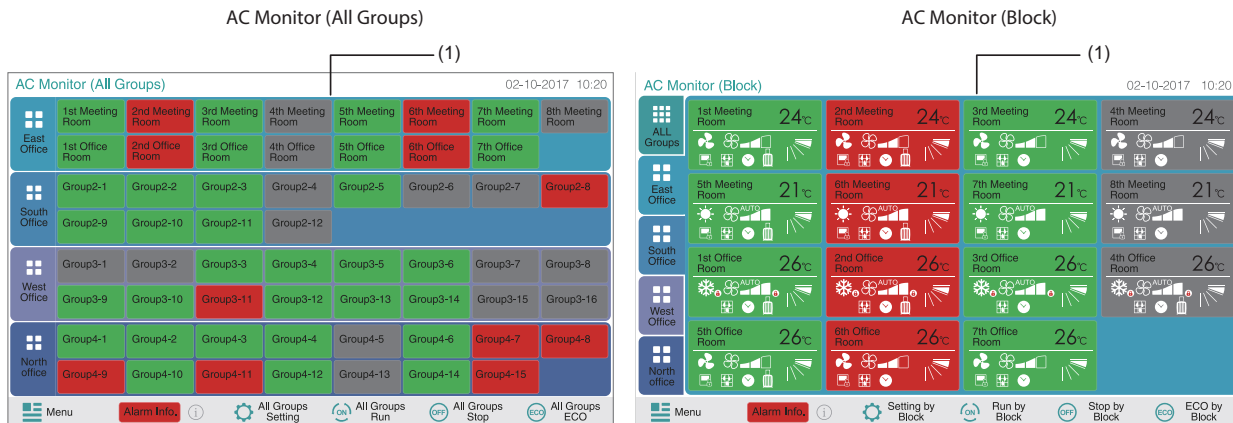
- Green : Run**
- Gray : Stop**
- Red : Abnormal**



The touchscreen display will automatically sleep when the touchscreen is not operated for the given length of time. (To wake up, touch the screen).

6.2 DISPLAY OF SPECIFIED BLOCK

1. Select the target block from the screen of AC Monitor.



2. The groups in the selected block will be displayed on the touchscreen. Each operation status is indicated by color of the group button as follows:



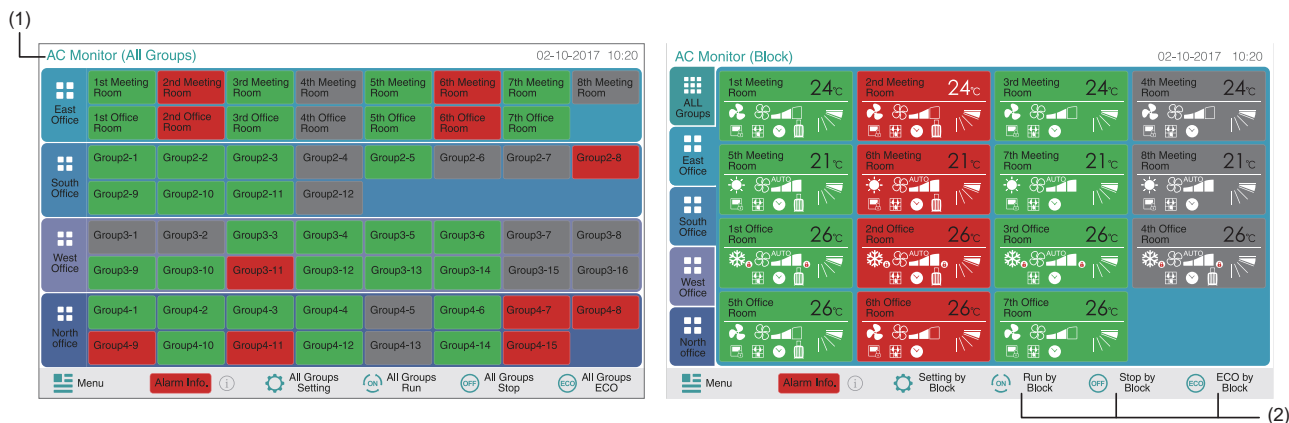
- Green : Run**
- Gray : Stop**
- Red : Abnormal**



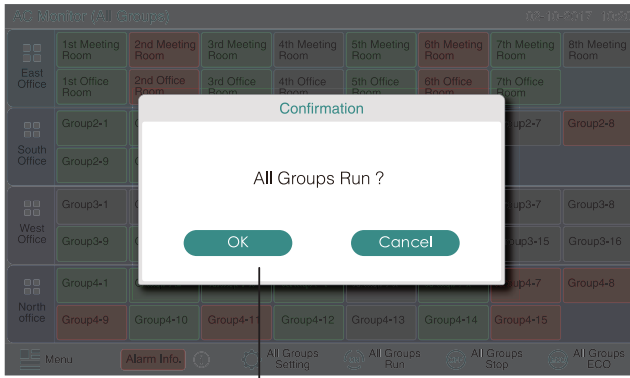
The touchscreen display will automatically sleep when the touchscreen is not operated for the given length of time. (To wake up, touch the screen.)

6.3 SIMULTANEOUS RUN/STOP/ECO FOR ALL GROUPS

1. Touch "All Groups" on the touchscreen display.
2. Touch "All Groups Run" or "All Groups Stop" or "All Groups ECO".



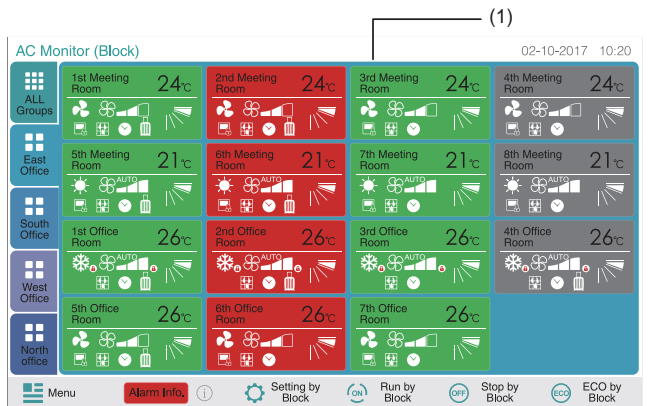
- The confirmation screen will be displayed. Touch “OK” (All indoor units connected to the central controller will be simultaneously operated) . Touch “Cancel” to cancel this command.



(3)

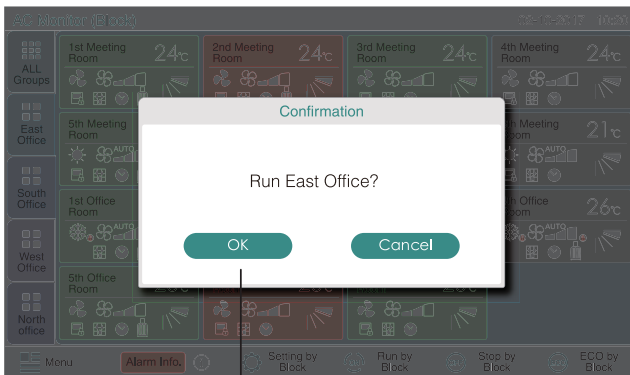
6.4 SIMULTANEOUS RUN/STOP/ECO FOR BLOCK

- Select the target block from the touchscreen display to set simultaneous Run/Stop/ECO operation.
- Touch “Run by Block” or “Stop by Block” or “ECO by Block”.



(2)

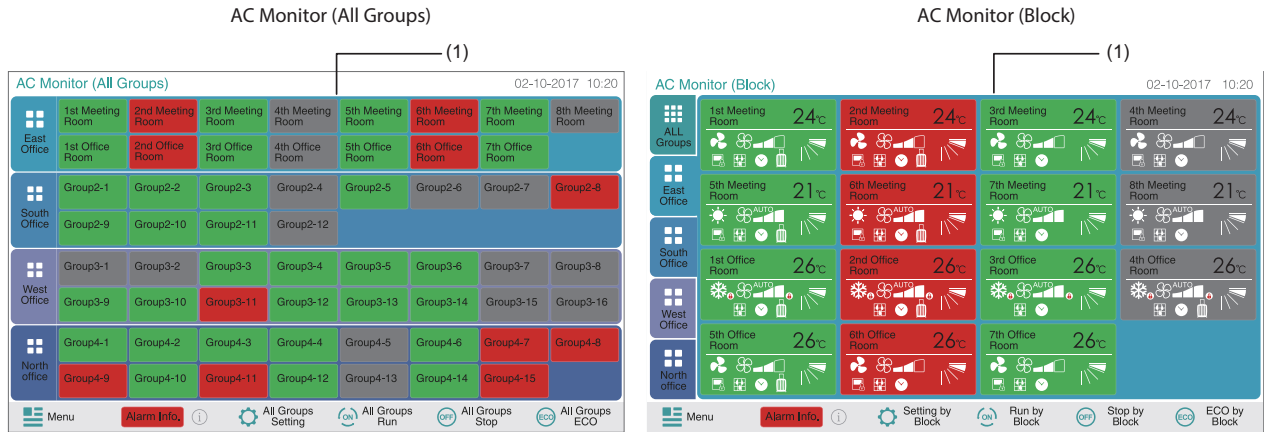
- The confirmation screen will be indicated. Touch “OK”. All groups (all indoor units) in the selected block connected to the central controller will be simultaneously operated. Touch “Cancel” to cancel this command.



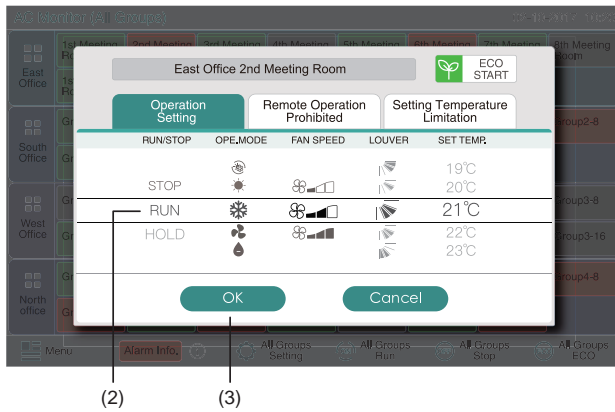
(3)

6.5 RUN/STOP FOR EACH GROUP

1. Select the screen of “AC Monitor (All Groups)” or “AC Monitor (Block)”. Select the group to set by touching the group button.

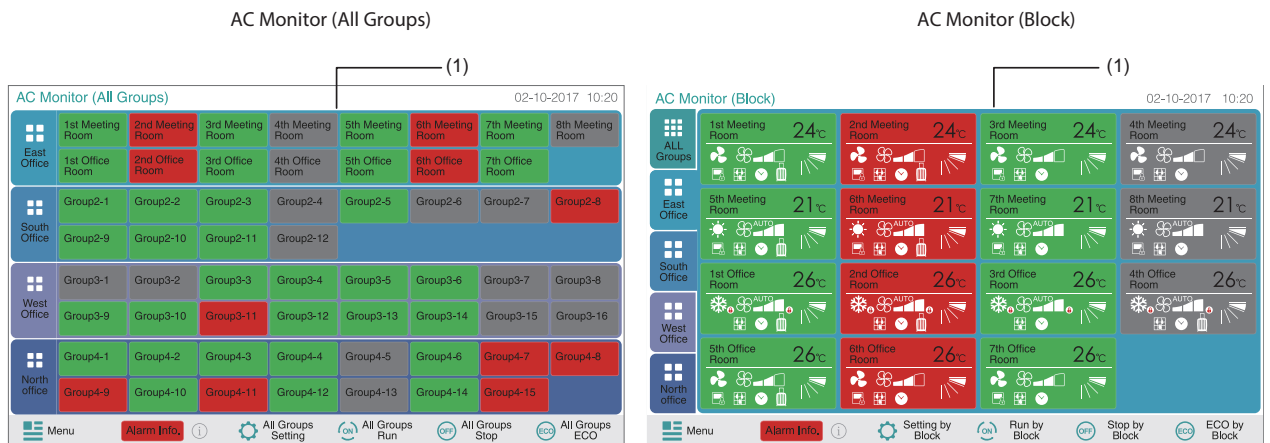


2. Selected group setting will be indicated on the touchscreen display. Touch “RUN” or “STOP”.
3. Touch “ OK ” to confirm and return.
4. Touch “ Cancel ” to cancel the command and return.

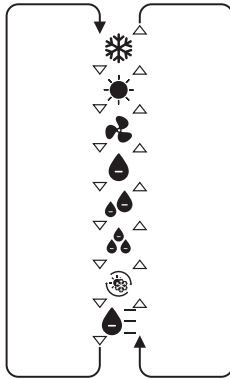


6.6 OPERATION MODE CHANGE

1. Select the screen of “AC Monitor (All Groups)” or “AC Monitor (Block)”. Select the group to set by touching the group button.

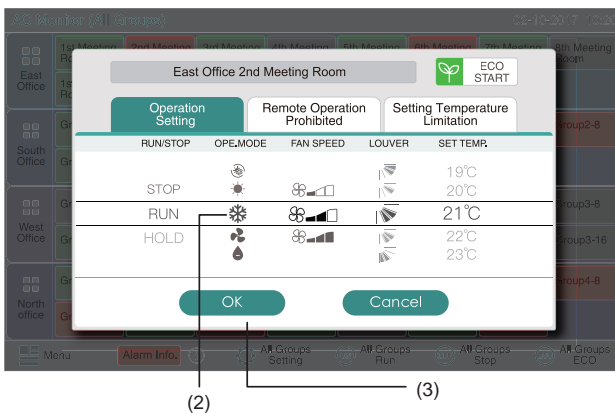


2. Slide the “OPE. MODE”, the operation mode will be changed alternately as follows.



The “AUTO” (Heating/Cooling Automatic Operation) will be included as option if applicable.

3. Touch “OK” to confirm and return.
4. Touch “Cancel” to cancel the command and return.



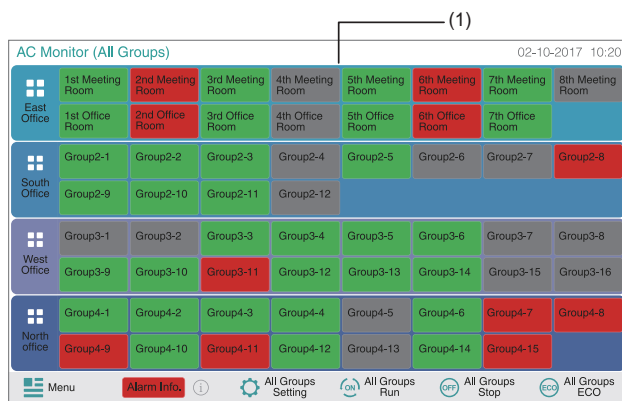
i NOTE

Some operation modes cannot be set depending on the unit model. Contact your dealer for detailed information.

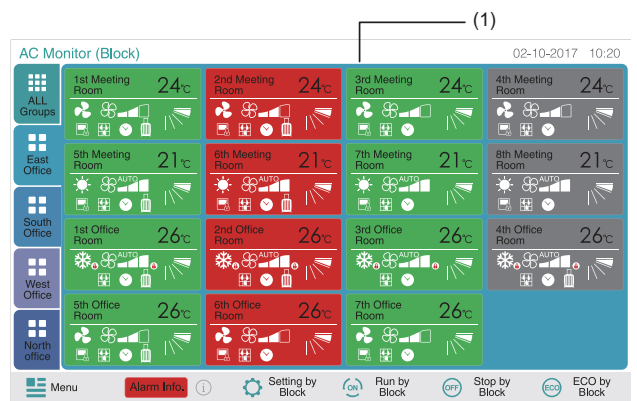
6.7 FAN SPEED SETTING

1. Select the screen of “AC Monitor (All Groups)” or “AC Monitor (Block)”. Select the group to set by touching the group button.

AC Monitor (All Groups)



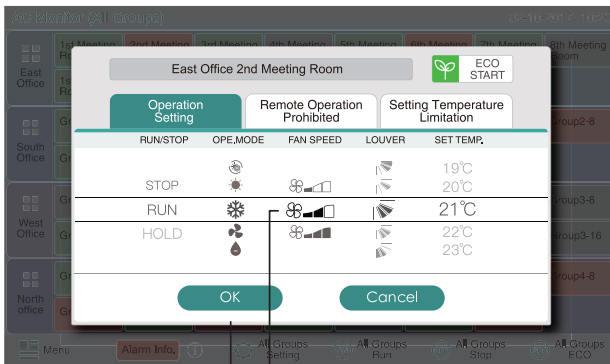
AC Monitor (Block)



- Slide the "FAN SPEED", the fan speed setting will be changed alternately as follows.



- Touch "OK" to confirm and return.
- Touch "Cancel" to cancel the command and return.

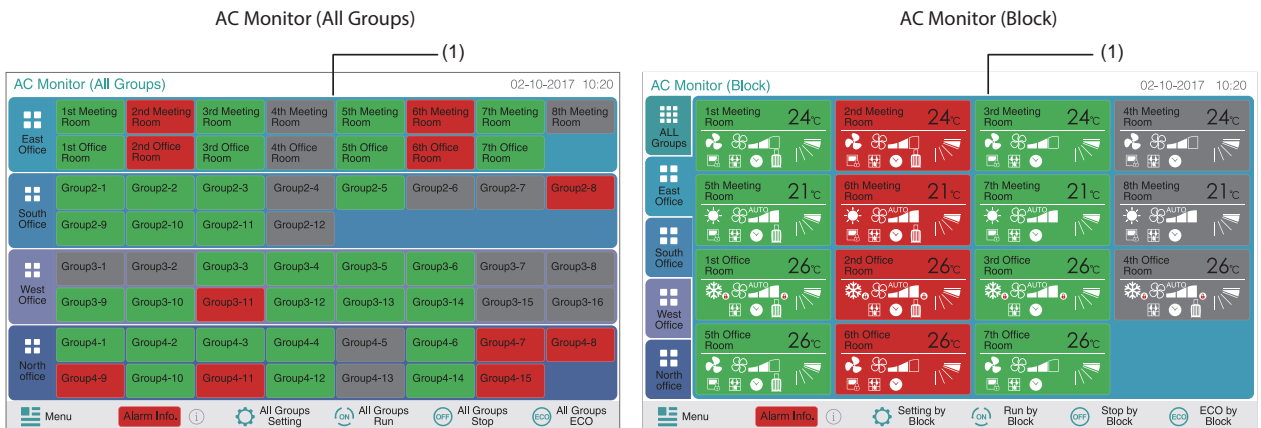


i NOTE

Actual fan speed during the dry operation will be "LOW" regardless of the fan speed setting. The figure above shows an example of standard unit. The fan speed may not be indicated for certain indoor unit model.

6.8 SWING LOUVER DIRECTION

- Select the screen of "AC Monitor (All Groups)" or "AC Monitor (Block)". Select the group to set by touching the group button.

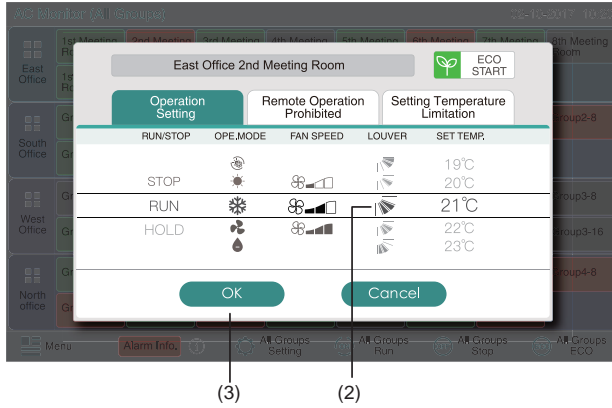


- Slide the "LOUVER", the swing louver direction will be changed alternately as follows.

LCD indication								
COOL DRY	←	Angle range						→
HEAT FAN	←	Angle range						→

: Auto swing operation will be started.

3. Touch "OK" to confirm and return.
4. Touch "Cancel" to cancel the command and return.



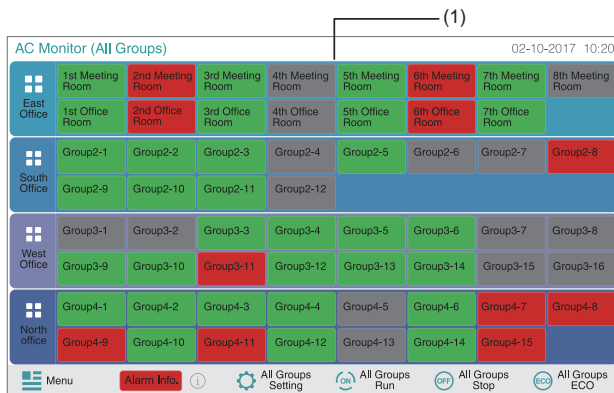
NOTE

- This function (swing louver direction) may not be set depending on the unit model.
- Louver position on LCD and the actual louver position do not always match during the auto swing operation.
- The louver may not stop immediately after the switch is pressed.

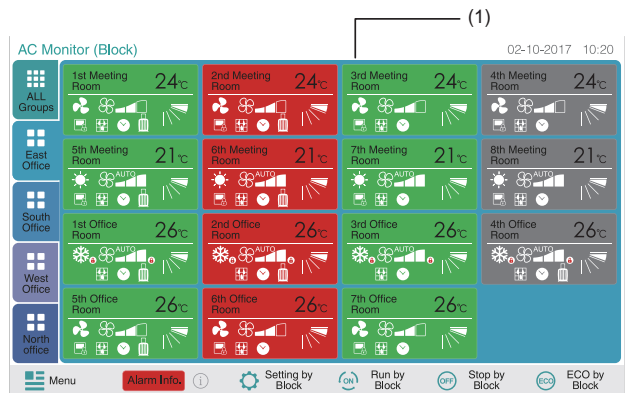
6.9 SETTING TEMPERATURE

1. Select the screen of "AC Monitor (All Groups)" or "AC Monitor (Block)". Select the group to set by touching the group button.

AC Monitor (All Groups)

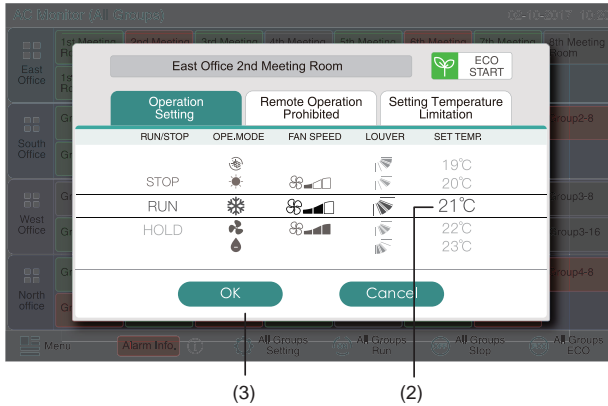


AC Monitor (Block)



2. Slide up, the temperature is increased by 1°C. (Max. 30°C). Slide down, the temperature is decreased by 1°C.
 - At Cooling, Dry and Fan operation: Min. 19°C
 - At Heating operation: Min. 17°C

3. Touch "OK" to confirm and return.
4. Touch "Cancel" to cancel the command and return.



i NOTE

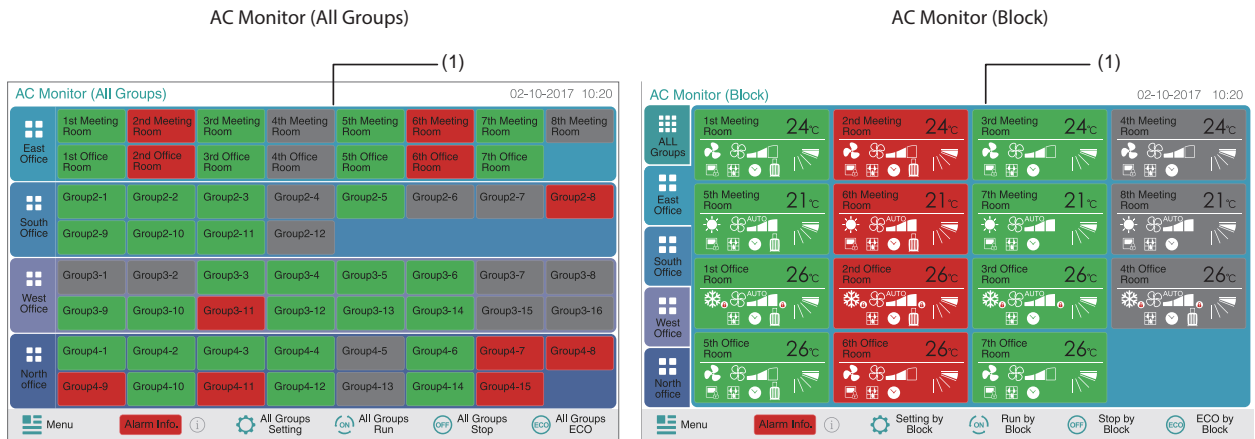
- The figure above shows an example of the setting temperature for the standard unit. The temperature setting range may be different depending on the connected indoor units.

6.10 PERMITTING/PROHIBITING OPERATION FROM REMOTE CONTROL SWITCH

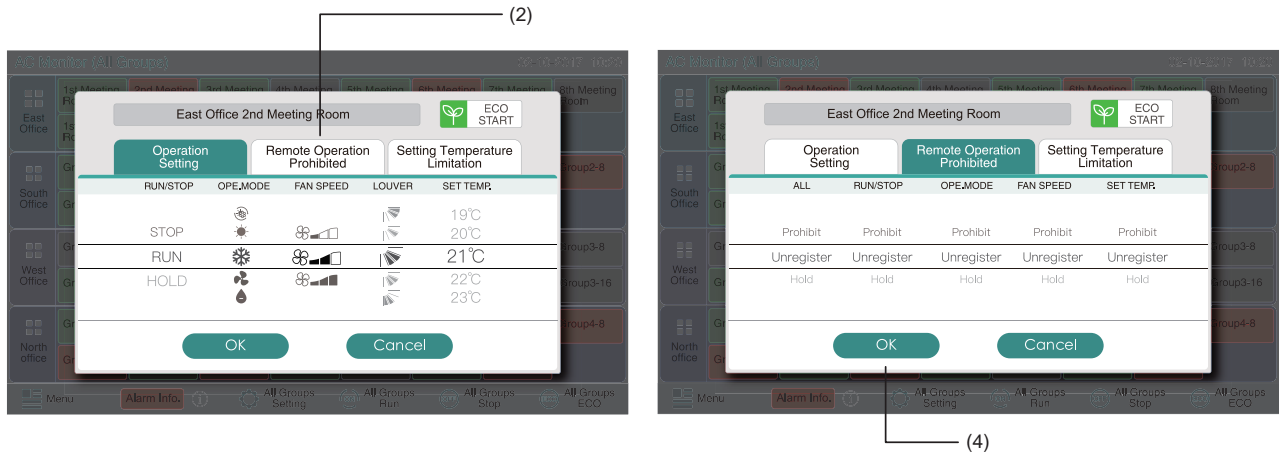
This function is used for prohibiting the operation from the remote control switch.

While operation is prohibited, "Central Control" is indicated on LCD of remote control switch and operating by the remote control switch is not available.

1. Select the screen of "AC Monitor (All Groups)" or "AC Monitor (Block)". Select the group to set by touching the group button.



2. Select "Remote Operation Prohibited" by touching.
3. Touch the switch of the items. If "ALL" is ON, the icon "⏏" will be indicated in monitor.
4. Touch "OK" to confirm and return.
5. Touch "Cancel" to cancel the command and return.



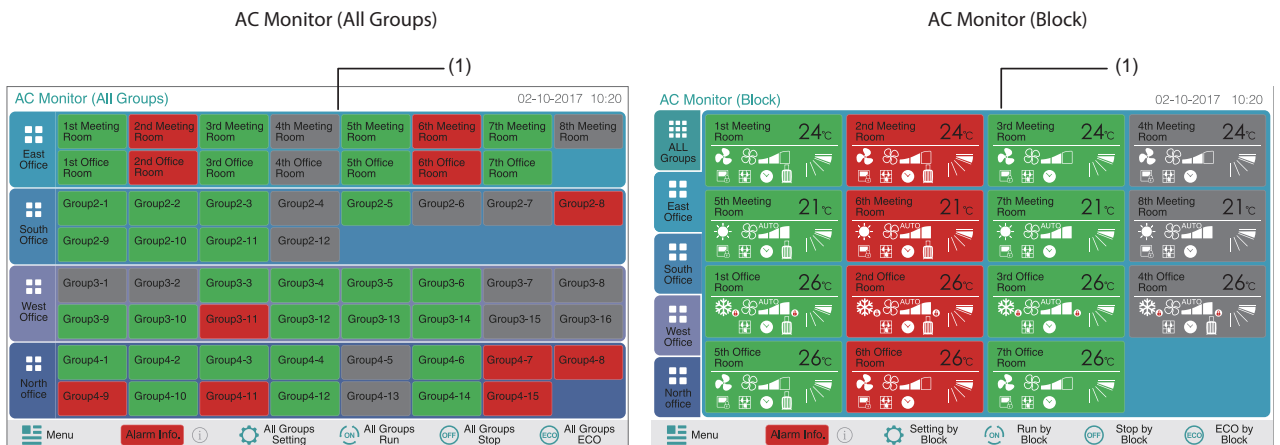
i NOTE

- If the unit is started from the central controller it can be stopped from the remote control switch even while the operation from the remote control switch is prohibited. In this case, press "Run" on the remote control switch to start the operation again. However, this method is for an emergency stop therefore do not use this for the normal operation.
- Do not set the prohibiting operation if multiple centralized controllers are used in the same H-NET. Additionally, do not set this by other centralized controller or it may cause malfunction.

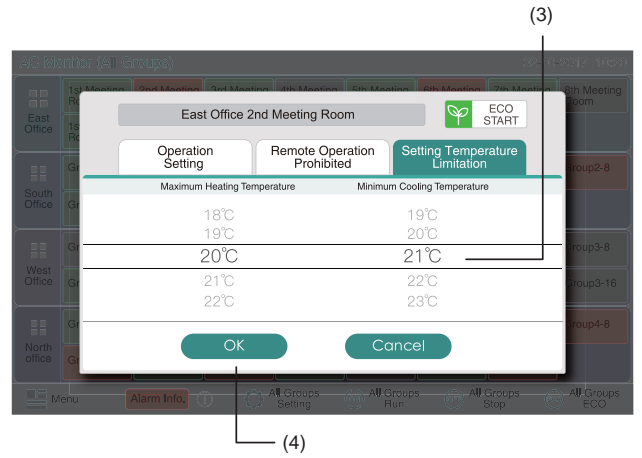
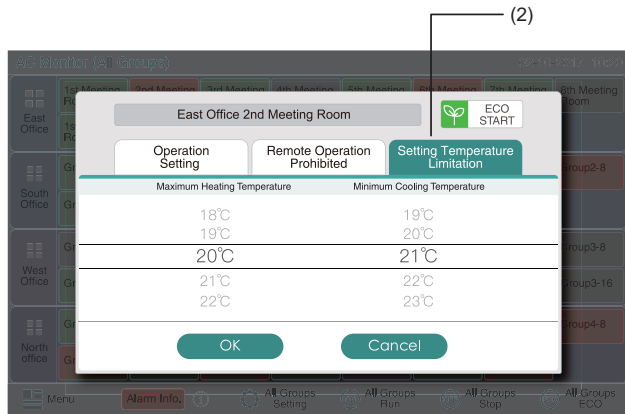
6.11 SETTING TEMPERATURE LIMITATION

This function is used to limit the setting temperature from the remote control switch and central controller.

1. Select the screen of "AC Monitor (All Groups)" or "AC Monitor (Block)". Select the group to set by touching the group button.



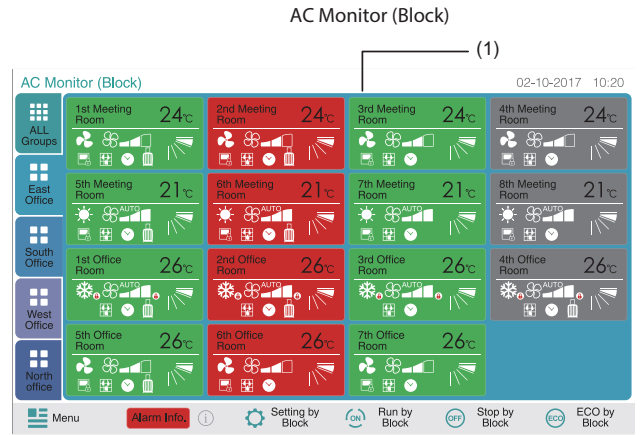
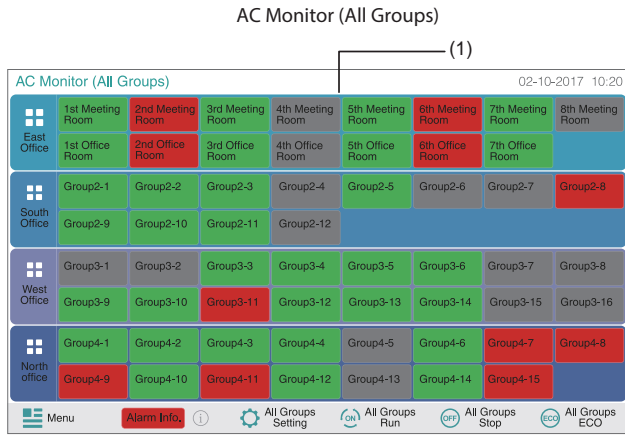
2. Select "Setting Temperature Limitation" by touching.
3. Slide the temperature to set the limitation.
4. Touch "OK" to confirm and return.
5. Touch "Cancel" to cancel the command and return.



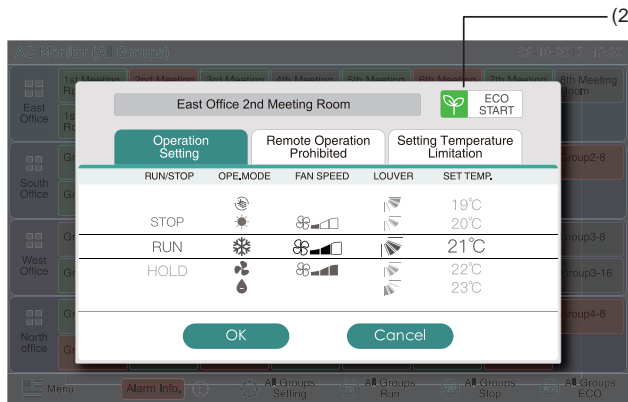
6.12 ECO START

This function is used to operate the indoor unit according to the ECO setting.

1. Select the screen of "AC Monitor (All Groups)" or "AC Monitor (Block)". Select the group to set by touching the group button.



2. Select "ECO START" by touching. ECO function start immediately.



7 MENU

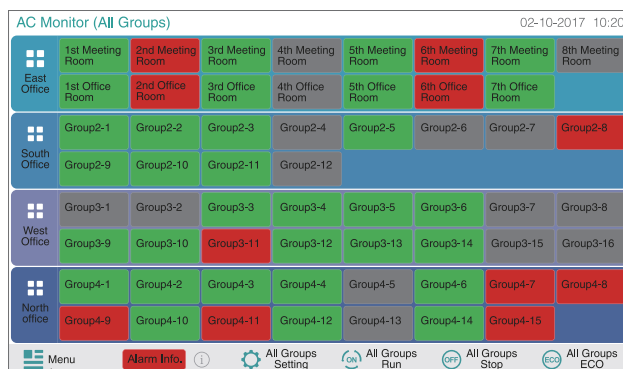
The table below shows menu item and its function.

Item	Function
Filter Sign Reset	This function is used for turning off the filter sign of the connected indoor units. This function can be used only for the indoor unit with "Filter Sign".
Schedule Setting	This function is used for scheduled timer operation which is possible to set by each block or group. This function is used for setting the time (by the minute), "Run/Stop" and temperature (19 ~ 30 °C) .
Schedule Timer Setting	For weekly schedule setting, up to 10 schedule items can be set per day. It is also available to copy the setting contents.
Holiday Setting	This function is used for suspending the schedule operation temporarily. The schedule operation will not be available when this function is set. This function is used for setting irregular holidays such as national holidays.
Schedule Timer ON/OFF Setting	"Schedule Timer OFF Setting" is used for suspending the schedule operation for the target group. The schedule operation will not be available when Schedule Timer is OFF. This function is used for a long holiday.
Date&Time	This function is used for adjusting date and time .
Touchscreen Cleaning	This function is used for cleaning LCD (liquid crystal display) of central controller.
Name Register	This function is used for registering name of the block and group. It is also available to copy the name. If the group/block is registered without name, it will be registered as "Group 1-1" or "Block 1" automatically.
Screen Display Setting	This function is used for setting the screen display.
Brightness	This function is used for adjusting the brightness and auto-off time of the touchscreen display.
Temperature Unit	This function is used for changing the temperature unit.
Accumulated Operation Time	This function is used for indicating the accumulated operation time of the air conditioner. The accumulated operation time will be indicated by month. The operation time is memorized for 24 months.
Contact Information	This function is used for indicating the service contact address and the latest alarm code.
Language Setting	This function is used for changing the displayed language.

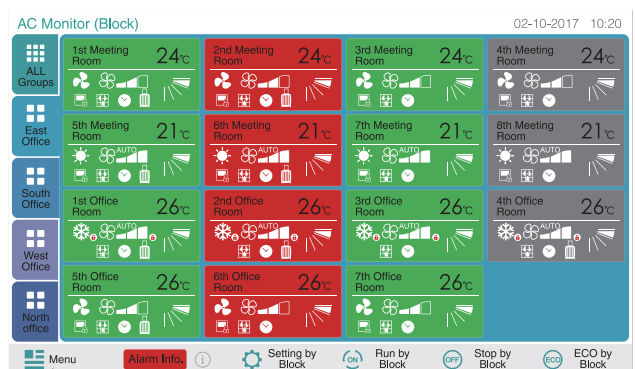
7.1 Menu

The setting items for the indoor unit and central controller are laid out in the menu. 1 Touch "Menu" at screen of "AC Monitor (All Groups)" or "AC Monitor (Block)".

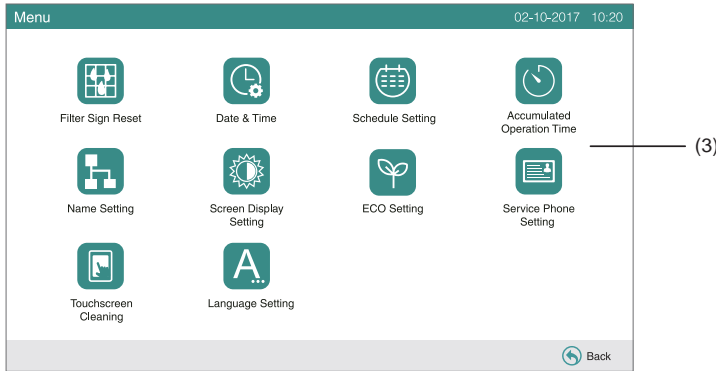
AC Monitor (All Groups)



AC Monitor (Block)



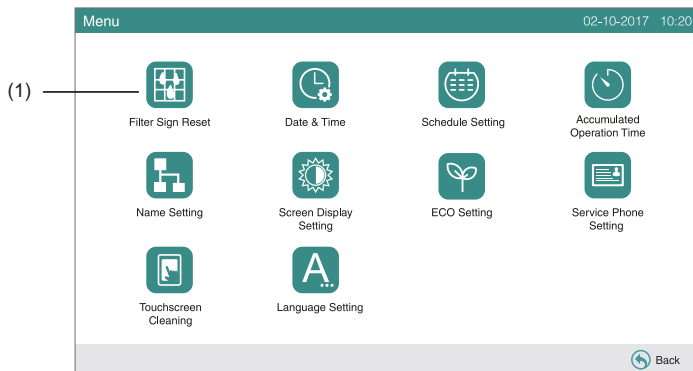
2. The screen of "Menu" will be displayed.
3. Select the item from the screen of "Menu".



4. Touch "Back" to return.

7.2 FILTER SIGN RESET

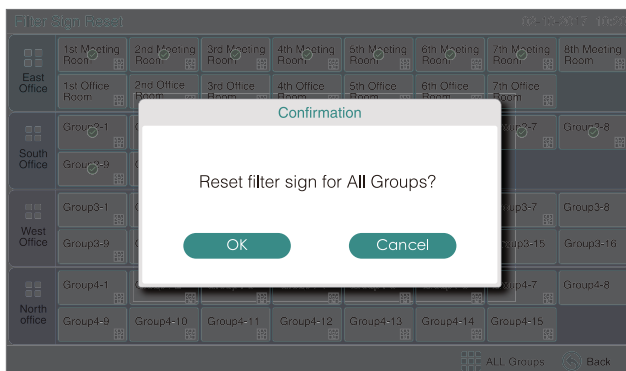
- 1 Select "Filter Sign Reset" from the screen of "Menu".



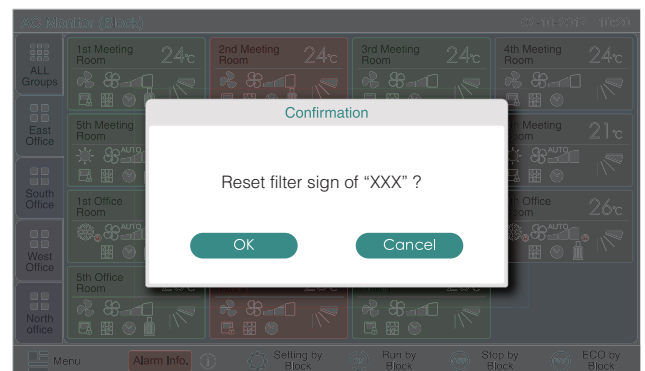
- 2 Select the target (all groups, block or group) to reset the filter sign.

Select "All Groups" or "Block". The following confirmation screen will be indicated. The filter sign can be reset simultaneously by selecting "OK".

When "All Groups" is touched

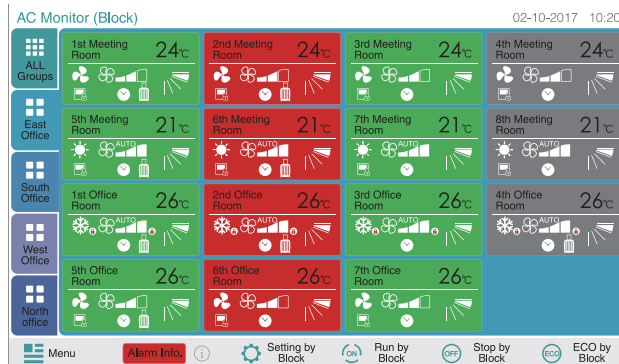
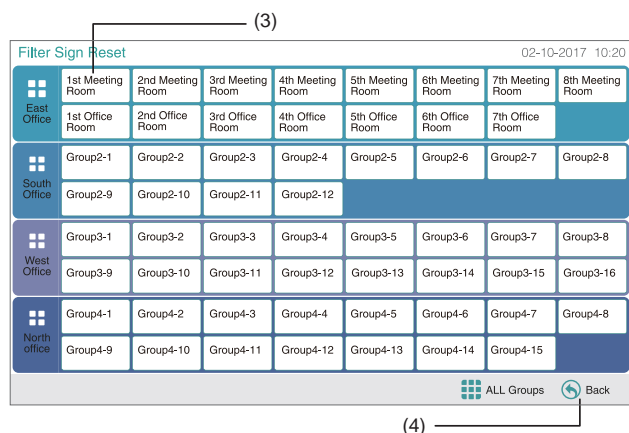


When "Block" is touched



- 3 When the filter sign is reset, filter sign is disappeared.

4. Touch "Back" to return.

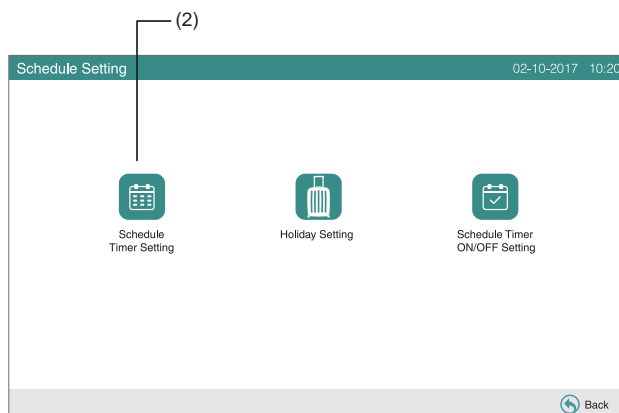
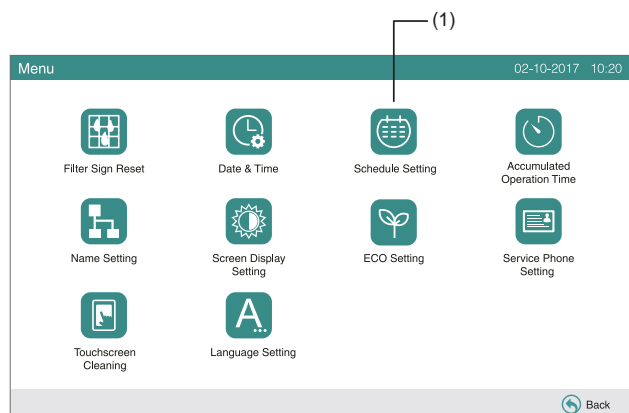


7.3 SCHEDULE OPERATION

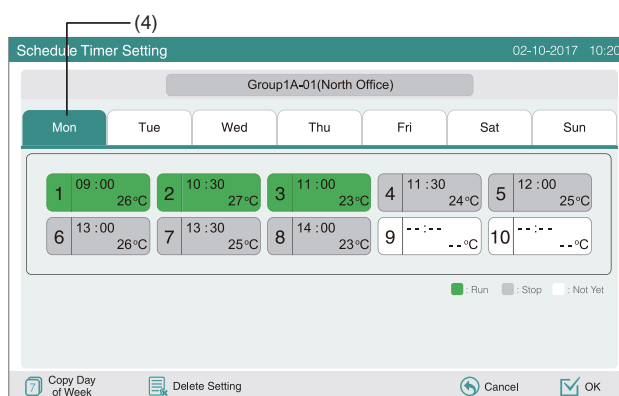
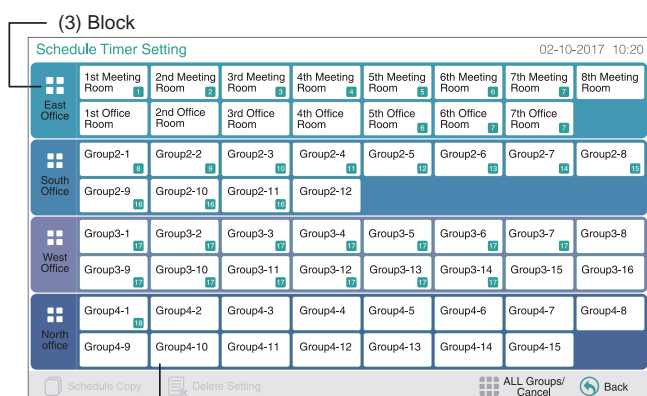
7.3.1 GROUP REGISTER

Timer Setting for Weekly Schedule

- 1 Select "Schedule Setting" from the screen of "Menu".
2. Select "Schedule Timer Setting" from the screen of "Schedule Setting".



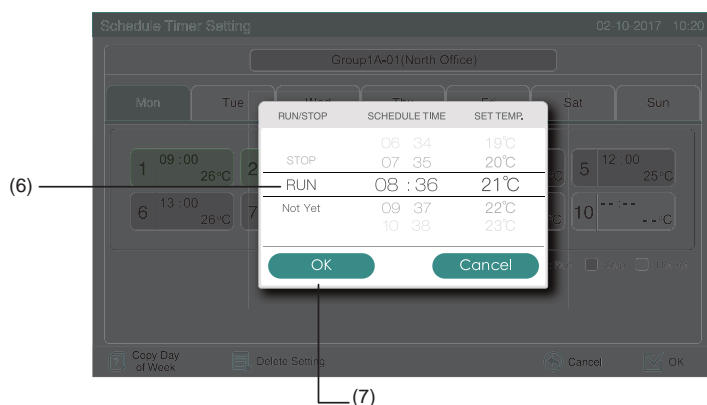
- 3 Select the target (all groups, block or group).
 - The number mark is indicated for the schedule of the group.
- 4 Select the target day of the week (from Mon. to Sun.).
- 5 Select the schedule item number (from 1 to 10).



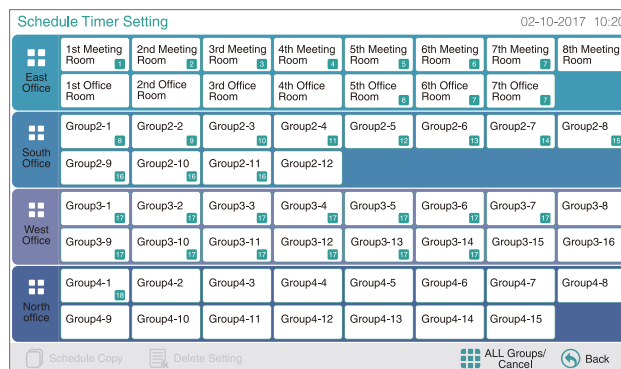
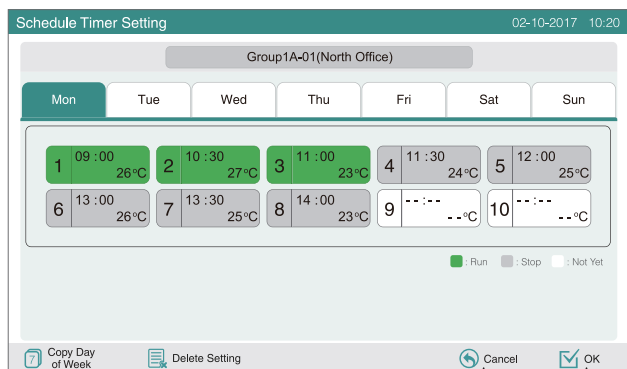
(3) Groups

(3) ALL Groups

6. Set the schedule time, run/stop operation and temperature.
 - Select the schedule item No. (1 ~ 10) and set the time.
 - Select "RUN" or "STOP".
 - Set the temperature.
 - "-" will be indicated when the time and temperature are not set.
7. Touch "OK" to register the scheduled items. If "Cancel" is touch, the scheduled items will be canceled.
 - To set the same day of the week, refer to the (5).
 - To set other days of the week, refer to the (4).



8. Touch "OK" to return and to set the timer for other groups.
 9. Touch "Cancel" to cancel the setting set the timer for other groups. The screen will return to "Schedule Timer Setting" (3). After the schedule is set, the registered schedule number (1 ~ 64) will be indicated in the group button. In case that the setting is the same, the same registered schedule No. will be indicated.
- If "OK" is touched, the screen will be changed to AC Monitor.

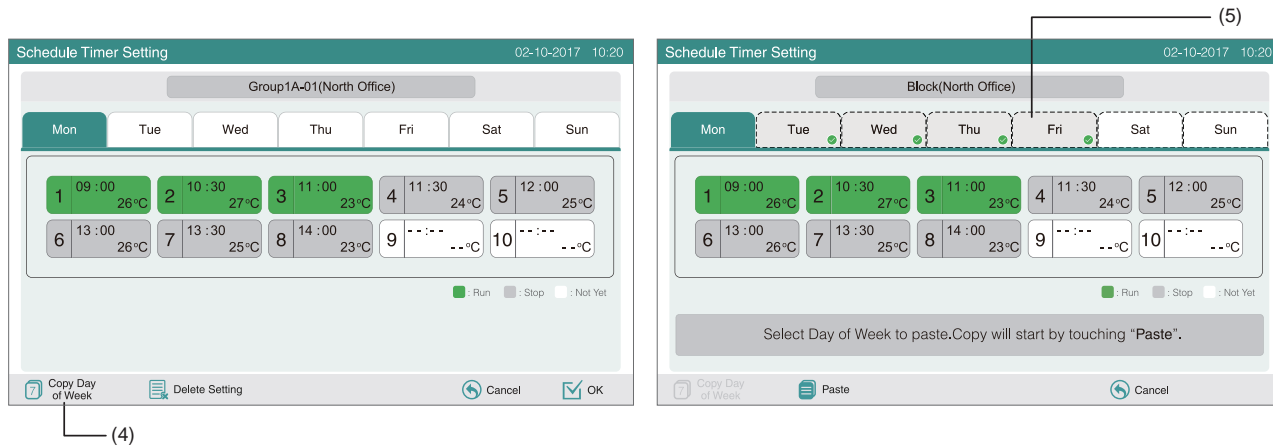


i NOTE

Make sure that the time and run/stop are set for the timer setting. (It is not necessary to set the temperature).

Copying Schedule Setting by Days of Week

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer Setting" from the "Schedule Setting".
- 3 Select the target (all groups, block or group).
- 4 Touch "Copy Day of Week".



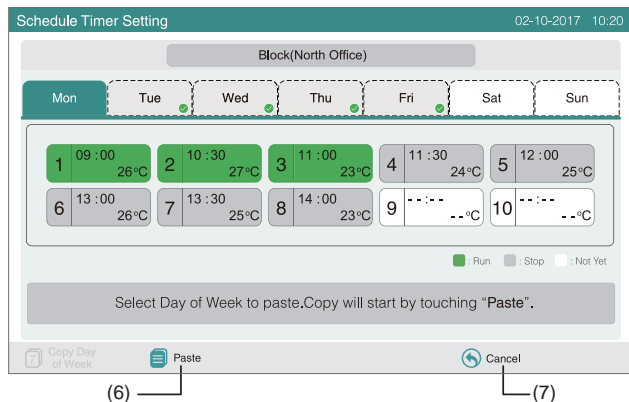
- 5 Select the day of the week tabs to paste.

After the day of the week is selected, the mark of "☑" will be indicated in the day of the week tab. Multiple selection of the days of the week is available to copy. Touch the day of week for reselecting the day of the week tabs.

- 6 Touch "Paste". The schedule setting is copied.

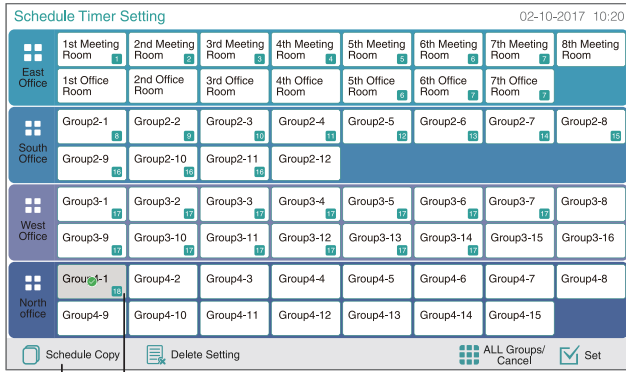
To copy the schedule for other days of the week, refer to the (5).

- 7 If "Cancel" is touched, the copy is canceled.

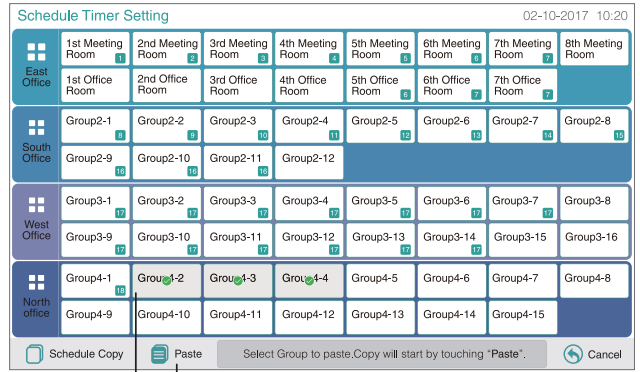


Copying Schedule Setting by Each Group

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer Setting" from the screen of "Schedule Setting".
- 3 Select one group to copy. (Block cannot be selected to copy).
- 4 Touch "Schedule Copy".
- 5 Touch "Back" to cancel the copy.



(4) (3)

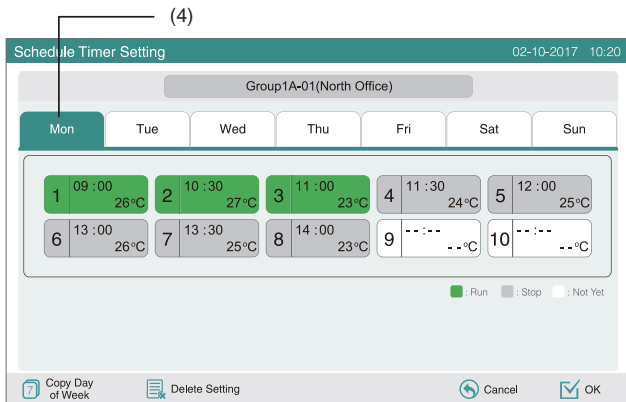


(6) (7)

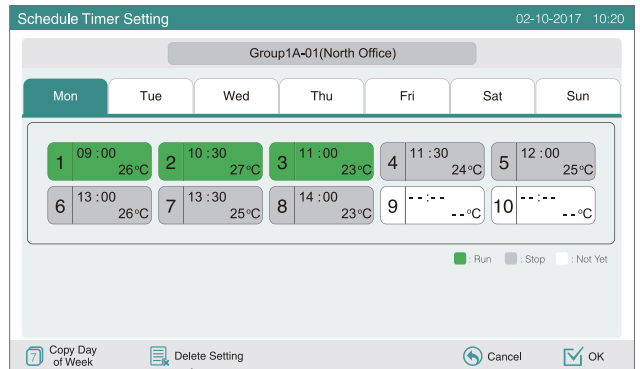
- 6 Select the groups to paste.
- 7 Touch "Paste" The schedule setting is copied.
- 8 If "Done" is touched, the screen will return to "Schedule Timer Setting".

Deleting Schedule Setting by day

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer Setting" from the screen of "Schedule Setting".
- 3 Select the target (all groups, block or group).
- 4 Select the day for deleting schedule.
- 5 Touch "Delete Setting", the confirmation screen will be displayed.

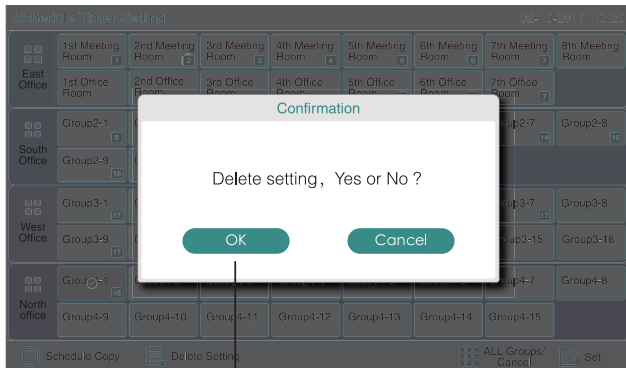


(4)



(5)

- 6 If "OK" is touched, the schedule setting will be deleted.



(6)

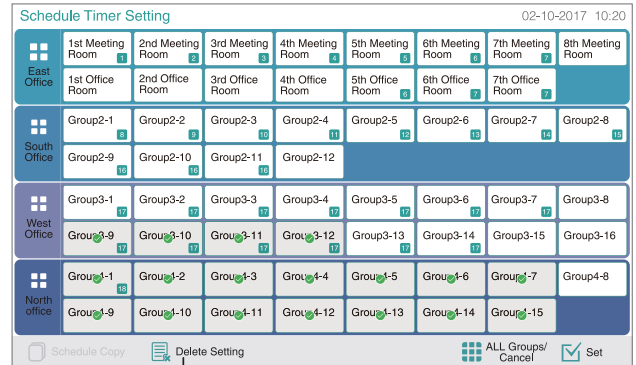
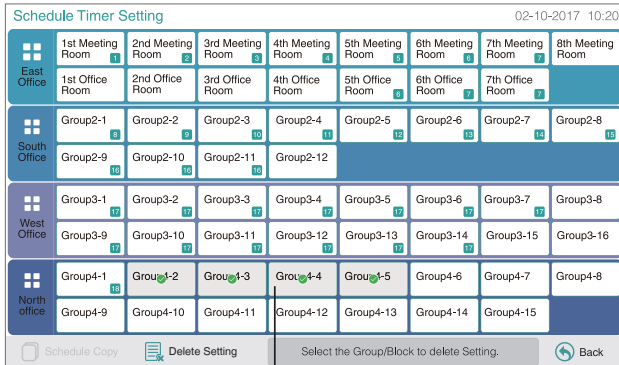
Deleting Schedule Setting by Each Group

- 1 Select "Schedule Setting" from the screen of "Menu".
- 2 Select "Schedule Timer Setting" from the screen of "Schedule Setting".

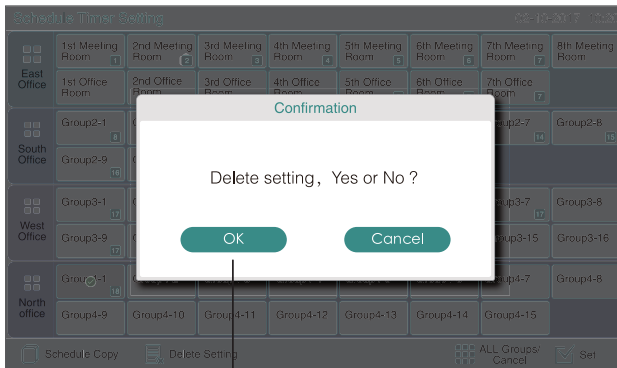
3 Select the groups or blocks to delete the setting.

If the groups or blocks are selected, the mark of “✔” is indicated. Multiple selection of group and block are available for deleting .

4 Touch “Delete Setting” , the confirmation screen will be displayed.



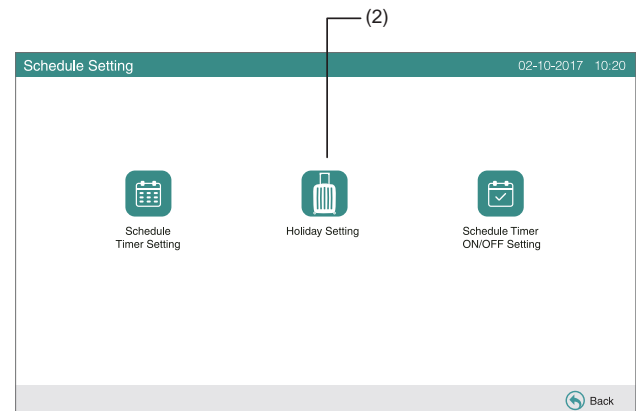
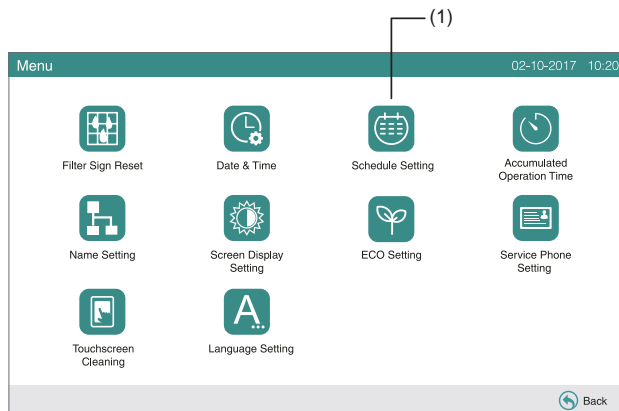
5 If “OK” is touched, the schedule setting will be deleted.



7.3.2 Holiday setting for operation suspended

1 Select “Schedule Setting” from the screen of “Menu”.

2 Select “Holiday Setting” from the screen of “Schedule Setting”.



3 Select the target (all groups, block or group). The calendar will be indicated.



“Holiday” means Operation Suspended Day.

4 Set the date to suspend the scheduled operation.

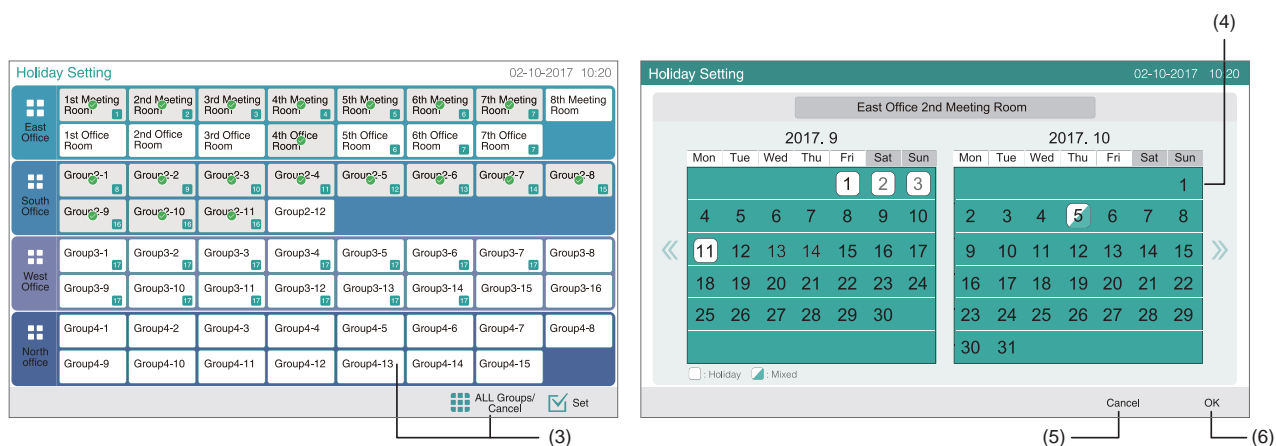
The calendar will be forward/backward by touching “◀” or “▶”.

By touching the date on the calendar, the “Holiday” is set with mark of “☐”. “Holiday Setting” is canceled by touching the same date again. Holiday setting is not available for the days before the present day.

With “All Groups” or “Block” selected, the mark of “◻” will be indicated for the day when the groups with setup holiday and the groups without setup holiday are mixed.

5 Touch “Cancel” to cancel the setting and set the schedule for other groups. The screen will return to “Holiday Setting”.

6 Touch “OK” to confirm the setting and set the schedule for other groups. The screen will return to “Holiday Setting”.

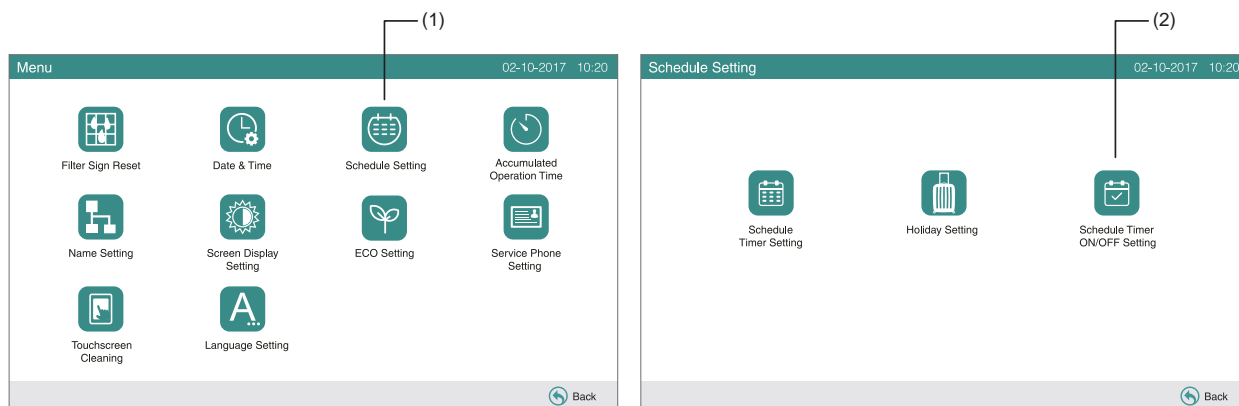


7.3.3 Schedule timer ON/OFF setting

1 Select “Schedule Setting” from the screen of “Menu”.

2 Select “Schedule Timer ON/OFF Setting” from the “Schedule Setting”.

The screen will be changed to the “Schedule Timer ON/OFF Setting”. At first, the setting is “ON” with the mark of “⬇”.



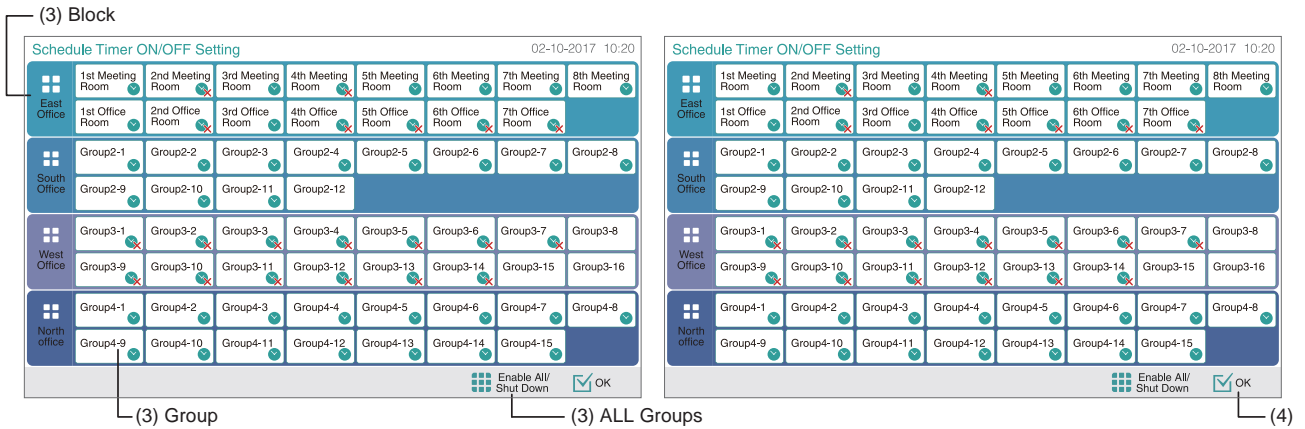
3 Select the target (all groups, blocks or groups).

By touching the button of all groups, blocks or groups, the indication is changed to the “OFF” setting with the mark of “⬇/✕”.

By touching the all groups, blocks or groups, the indication is changed alternately in order of “⬇” and “⬇/✕”.

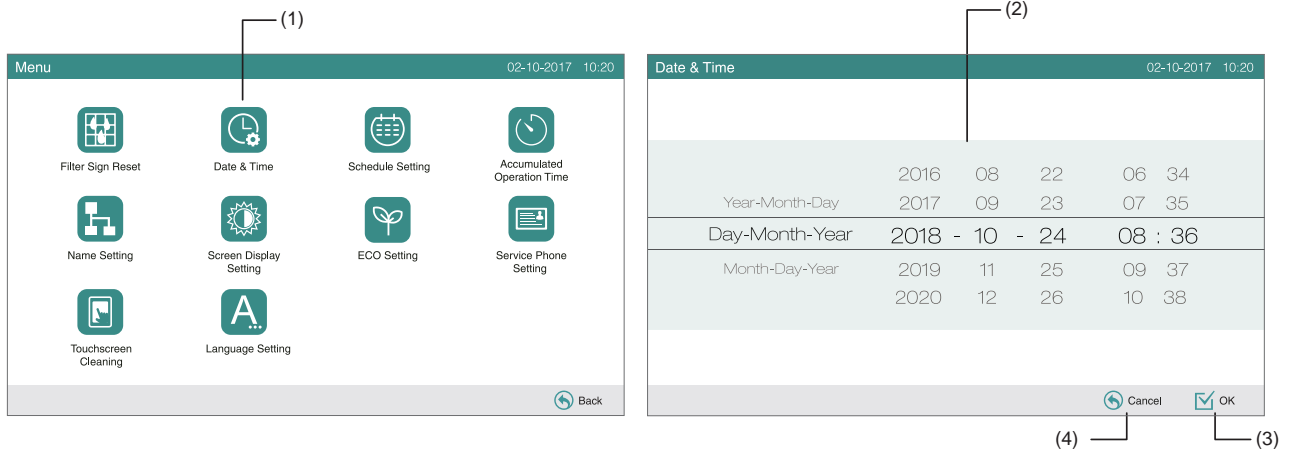
- Schedule is turned ON: ⬇
- Schedule is turned OFF: ⬇/✕

4 Touch “OK” to return.



7.4 DATE&TIME

- 1 Select "Date&Time" from the screen of "Menu".
- 2 Slide the Date and Time to adjust them.
- 3 Touch "OK" to confirm and return.
- 4 Touch "Cancel" to cancel and return.

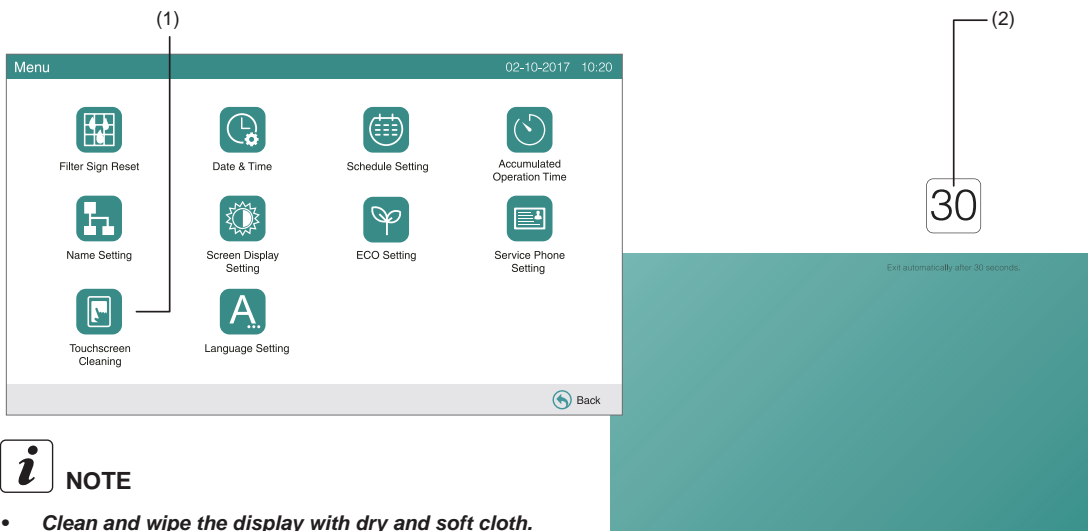


i NOTE

- *Periodical clock adjustment is recommended. (Clock accuracy: difference +70 sec. per month)*
- *Adjusting DATE&TIME wrong may clear the accumulated operation time*

7.5 TOUCHSCREEN CLEANING

- 1 Select "Touchscreen Cleaning" from the screen of "Menu".
- 2 The screen will be changed as shown in the figure (2).
The screen will be locked for 30 seconds. Clean the touchscreen display while the screen is locked.
- 3 It is returned to the screen of AC Monitor automatically.



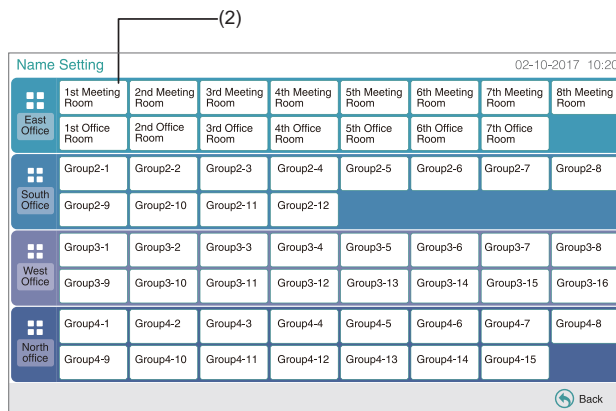
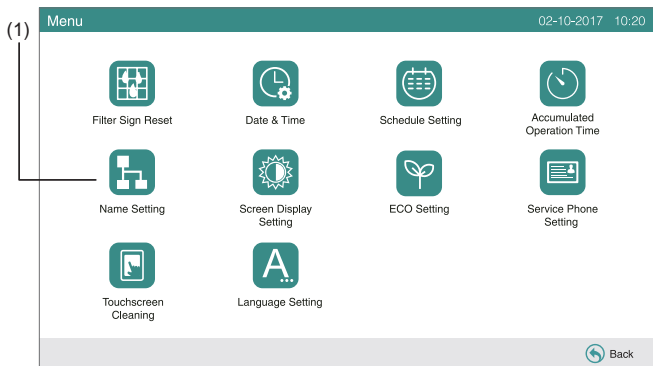
NOTE

- Clean and wipe the display with dry and soft cloth.
- For oil and fat on the touchscreen such as finger print marks, use diluted neutral detergent. Before cleaning, wring water out to dry. After that, again wipe the display with dry and soft cloth.
- Do not use benzene, thinner or surface active agent in order to protect the touchscreen and body from deformation or deterioration.

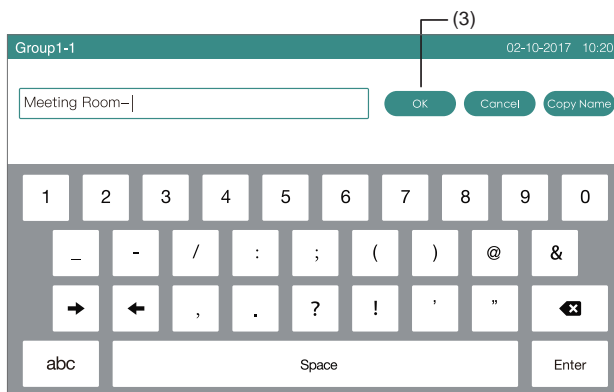
7.6 REGISTERING GROUPS/BLOCKS NAME

7.6.1 Registering name of group (Block)

- 1 Select "Name Setting" from the screen of "Menu".
- 2 Select the target (block or group) to set the name.



- 3 Enter the group (block) name and touch "OK".
The screen will return to "Name Setting" and entered name is stored.
- 4 Touch "OK" on the screen of (2) to return to the screen of AC Monitor.

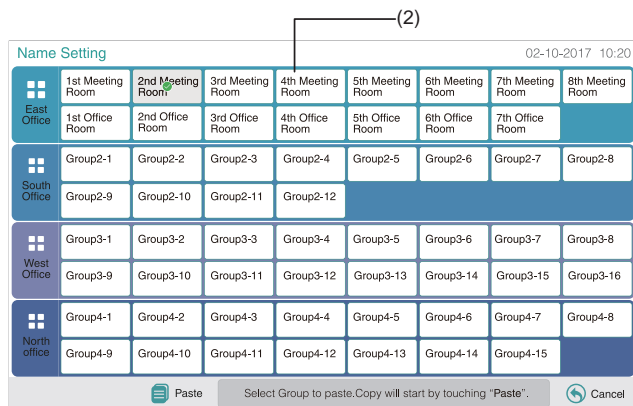




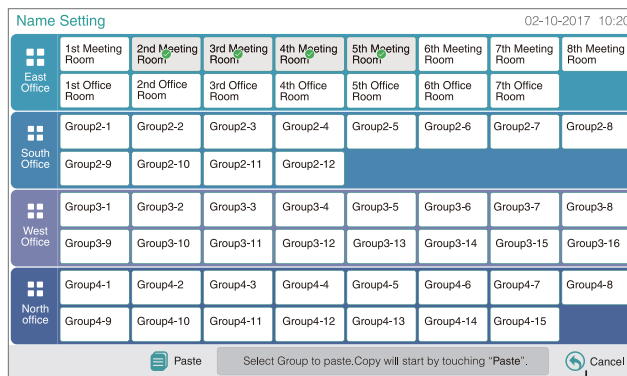
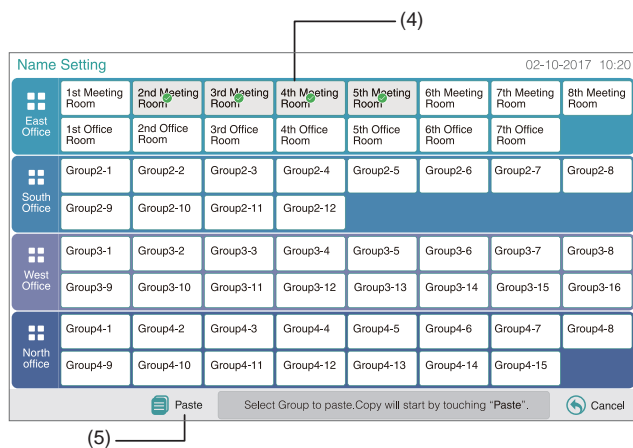
The registrable number of letters are maximum 20 for the name of the group (block). If "ENTER" is pressed, the name is indicated in 2 lines (10 letters/line) on the touchscreen display.

7.6.2 Copying name of group (Block)

- 1 Select "Name Setting" from the screen of "Menu".
- 2 Select one group (block) to copy.
- 3 Touch "Copy Name".



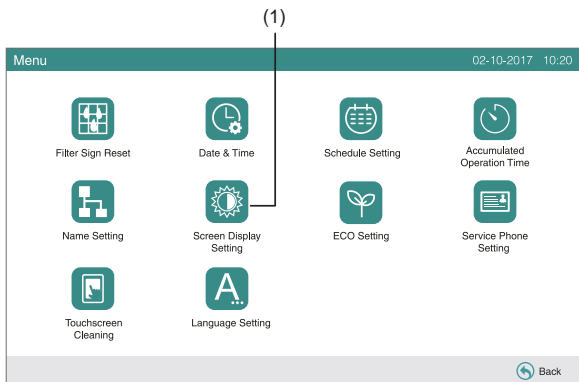
- 4 Select the destination group (block) to paste. The mark of "✔" will be indicated in the button. Multiple selection of group (block) is available to paste. To cancel the selection, press the selected group (block) again, the mark of "✔" will turn off.
- 5 Touch "Paste". The name of the group (block) is copied. To copy the name of other groups, refer to (3). To finish, refer to (6).
- 6 If "Cancel" is tapped without tapping "Paste", the selected items for copying are canceled.



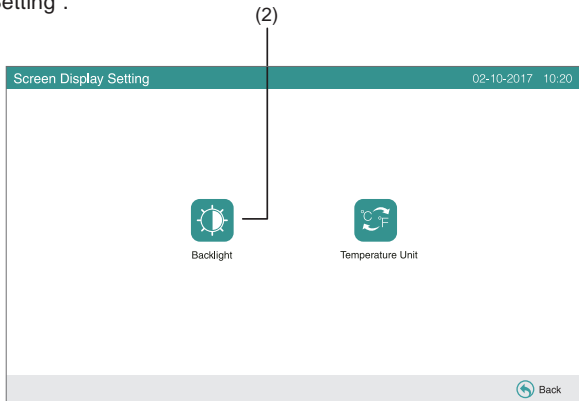
7.7 SCREEN DISPLAY SETTING

7.7.1 Adjusting backlight of touchscreen display

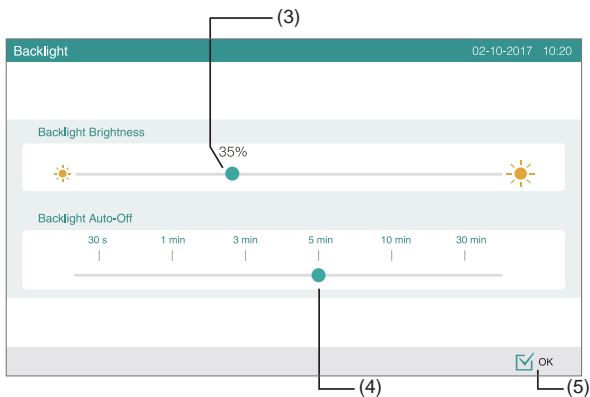
1 Select "Screen Display Setting" from the screen of "Menu".



2 Select "Backlight" from the screen of "Screen Display Setting".

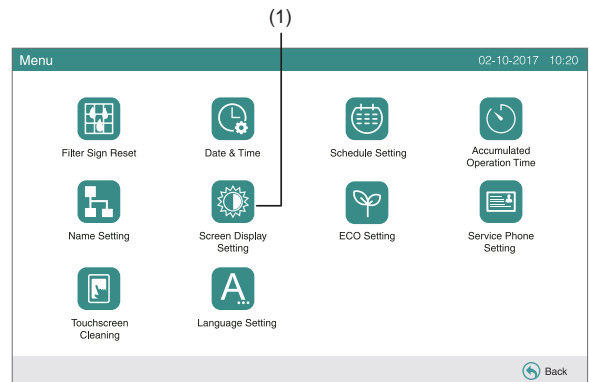


- 3 Slide to adjust the brightness of the backlight.
- 4 Slide to adjust the backlight auto-off.
- 5 Touch "OK" to return to the screen of "Screen Display Setting".

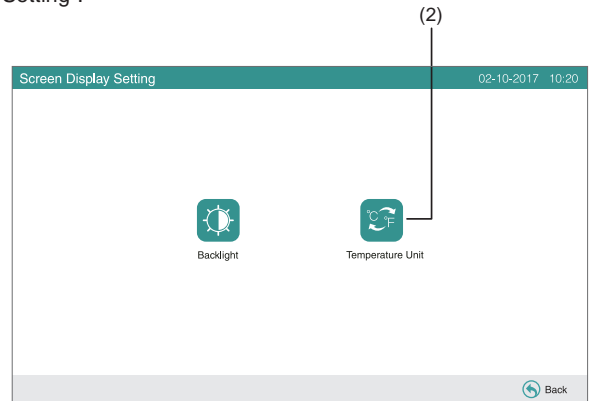


7.7.2 Temperature unit setting

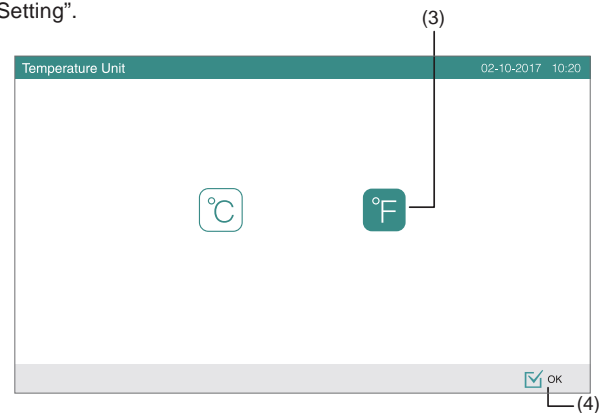
1 Select "Screen Display Setting" from the screen of "Menu".



2 Select "Temperature Unit" from the screen of "Screen Display Setting".

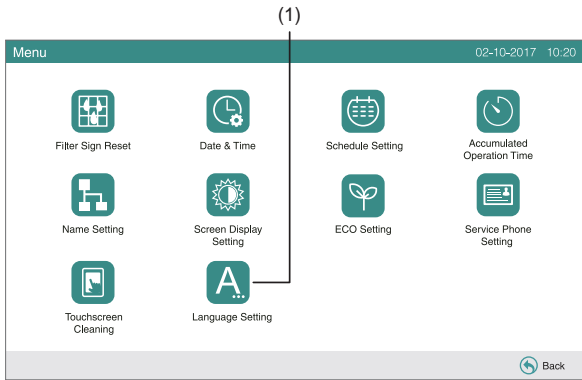


- 3 Select "°C" or "°F" for the operating button indication. The selected button color is changed.
- 4 Touch "OK" to return to the screen of "Screen Display Setting".



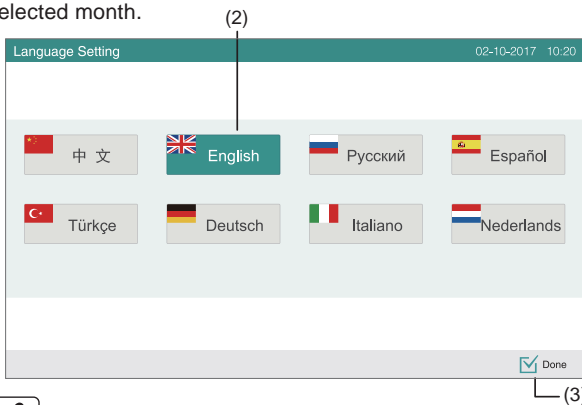
7.8 LANGUAGE SETTING

1. Select "Language Setting" from the screen of "Menu".



2. The confirmation screen is displayed when selecting the language button.

3. Touch "Done" at the confirmation screen and return to the selected month.

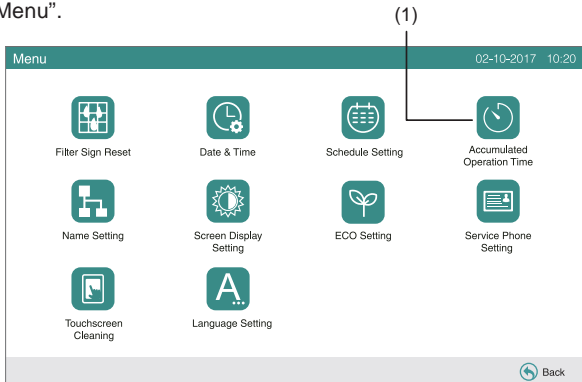


i NOTE

If language is changed, the registered block/group name and contact information will not change.

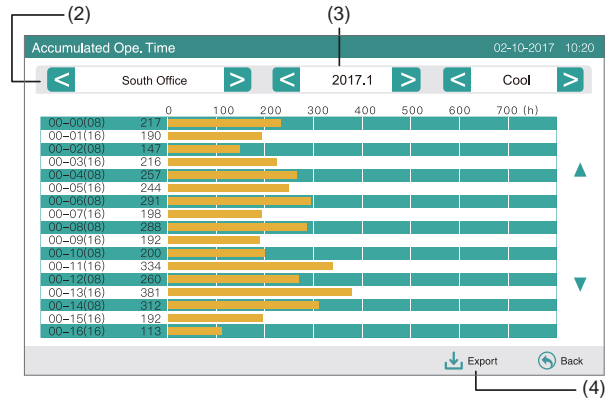
7.9 ACCUMULATED OPERATION TIME OF UNIT

1. Select "Accumulated Operation Time" from the screen of "Menu".



2. Select the target block.

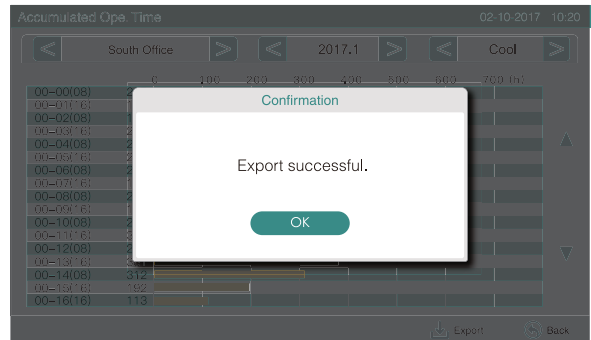
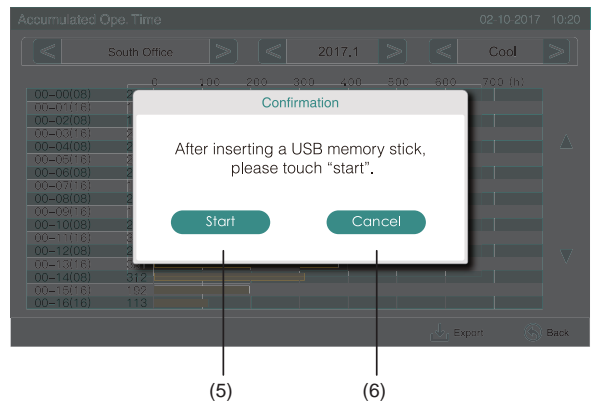
3. Touch "<" or ">" and select the target month. The operation time for the groups in the selected block are indicated according to the selected month.



4. Touch "Export" to output the data of operation time.

5. Touch "Start" to export the "Accumulated Operation Time" to the USB memory stick.

6. Touch "Cancel" to return to "Accumulated Operation Time".

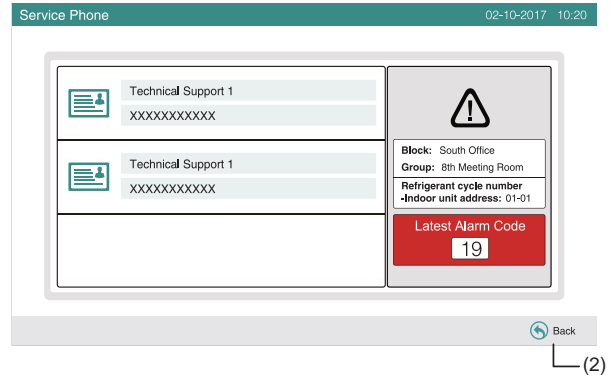
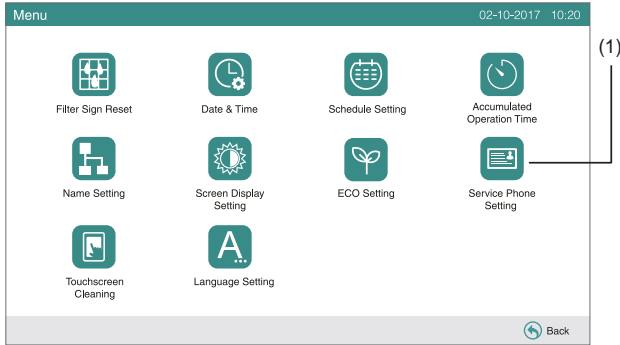


7. Touch "OK" to return to "Accumulated Operation Time", when the exportation is finished.

8. Touch "Back" to return to the screen of AC Monitor.

7.10 CONTACT INFORMATION

1. Select "Service Phone Setting" from the screen of "Menu". The following information will be displayed:
 - Contact information
 - Block/group name of the latest alarm
 - Latest alarm code
- 2 Touch "Back" to return to the screen of AC Monitor.



i NOTE

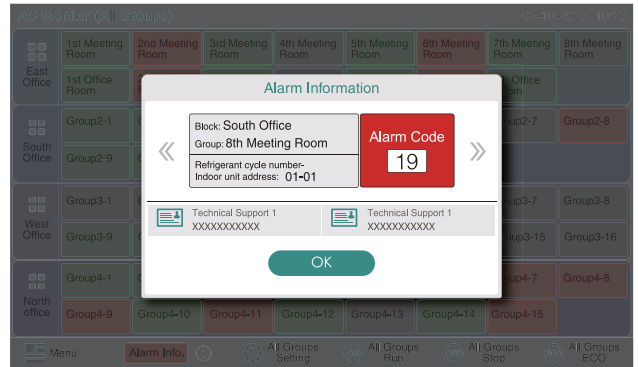
Without alarm occurrence, the name of the target block/group and the alarm code will not be indicated.

8. OTHER INDICATIONS ON LCD

8.1 IN NORMAL CONDITION

	Schedule	"" is indicated for the group with the schedule setting
	Remote Operation Prohibited	"" is indicated for the group when operation by remote control switch is prohibited. Operation by remote control switch is not available while operation by remote control switch is prohibited (except for the emergency stop operation).
	Filter Sign	"" is indicated when the air filter of the indoor unit is clogged. After cleaning, press menu and reset the filter sign. The indication will turn off.

8.2 IN ABNORMAL CONDITION



In case that multiple indoor units are in abnormal condition, the details information of abnormality are indicated as above. In that case, the group in abnormal condition can be also selected by touching "«" or "»" on "Alarm" information screen. Check the contents of LCD indication and contact your dealer for details.

Power Failure

- The display is OFF.
- Once the unit is stopped by the power failure, the unit will not start again after the power recovery. Perform the starting procedures again.
- In case of instantaneous power failure within 2 seconds, the unit will automatically start again.

Noise

- There could be a case that the display is OFF. This is caused by the activation of the microcomputer for the unit protection from the electric noise. When the unit is stopped, perform the starting procedures again.

9 TROUBLESHOOTING

Check the following table before contacting a dealer for maintenance.

Condition	Cause
Indications on the touchscreen are not displayed.	Check that the wiring for the power supply is connected to the plug. Check that the power supply is turned ON.
The touchscreen display is slept.	The touchscreen will automatically sleep when the touchscreen is not operated for the given length of time. Touch the screen to wake up.
A part of the touchscreen is not turned on or is constantly turned on.	There may be dead pixel on the LCD. This is not faulty.
The timer operation by the schedule setting does not run.	Check if the holiday setting is turned ON. If so, cancel the holiday setting according to Holiday Setting for Operation Suspended section. Check if the setting of schedule operation is turned OFF. If so, the schedule operation should be turned ON according to Schedule Timer ON/OFF Setting section.
The setting is not changed.	When the central controller connect to so much indoor units, the control speed may drop. This is not faulty.