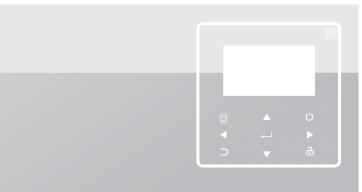


Scan the QR code to read the manual in different languages.



Scan the QR code to install the control APP.

OPERATION MANUAL



Thank you very much for purchasing our product.

Before using your unit, please read this manual carefully and keep it for future reference.

- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of the wired controller, please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.

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1 GENERAL SAFETY PRECAUTIONS

1.1 About the documentation

- The original documentation is written in English. All other languages are translations.
- The precautions described in this document cover very important topics, follow them carefully.
- All activities described in the installation manual must be performed by an authorized installer.
- 1.1.1 Meaning of warnings and symbols

Indicates a situation that results in death or serious injury.

.....

⚠ DANGER: RISK OF ELECTROCUTION

Indicates a situation that could result in electrocution.

⚠ DANGER: RISK OF BURNING

Indicates a situation that could result in burning because of extreme hot or cold temperatures.

Indicates a situation that could result in death or serious injury.

Indicates a situation that could result in minor or moderate injury.

♀ NOTE

Indicates a situation that could result in equipment or property damage.

i INFORMATION

Indicates useful tips or additional information.

1.2 For the user

• If you are not sure how to operate the unit, contact your installer.

 The appliance is not intended for use by persons, including children, 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 must be supervised to ensure that they do not play with the product.

Do NOT rinse the unit. This may cause electric shocks or fire.

.....

♀ NOTE

- Do NOT place any objects or equipment on top of the unit.
- Do NOT sit, climb or stand on the unit.

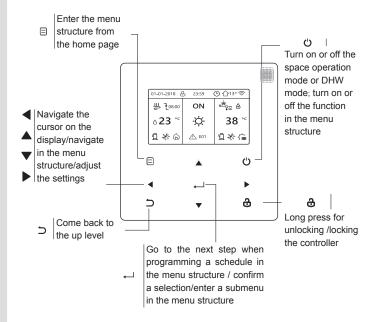
· Units are marked with the following symbol:



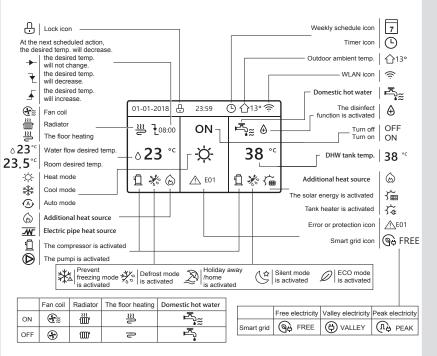
This means that electrical and electronic products may not be mixed with unsorted household waste. Do not try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, of oil and of other parts must be done by an authorized installer and must comply with applicable legislation. Units must be treated at a specialized treatment facility for reuse, recycling and recovery. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health. For more information, contact your installer or local authority.

2 A GLANCE OF THE USER INTERFACE

2.1 The appearance of the wired controller



2.2 Status icons



3 USING HOME PAGES

3.1 About home pages

You can use the home pages to read out and change settings that are meant for daily usage. What you can see and do on the home pages is described where applicable. Depending on the system layout, the following home pages may be possible:

- Room desired temperature (ROOM)
- Water flow desired temperature (MAIN)
- DHW tank actual temperature (TANK)

DHW=domestic hot water

home page1 :

If you have set the WATER FLOW TEMP. as YES and ROOM TEMP. as NON, the system has the function including floor heating and making hot water. The following page will appear:

NOTE

All the pictures in the manual are used to explain, the actual pages in the screen may have some difference.

01-01-2018 🕂	23:59) ①13°
<u></u>	ON	ı پ
∂23 ^{°°}	Ŋ.	38 °℃
1		

home page 2 :

If you have set the WATER FLOW TEMP. as NON and ROOM TEMP. as YES, the system has the function including floor heating and making hot water. The following page will appear:

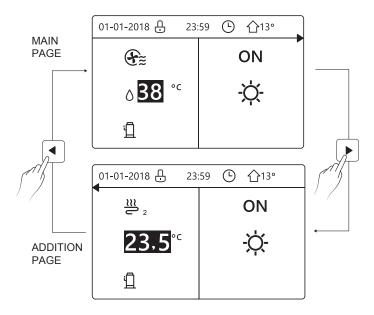
NOTE

The interface should be installed in the floor heating room to check the room temperature.

01-01-2018 🕂	23:59) ①13°
<u>=</u>	ON	
23,5°°	-ờ-	38 °℃
1		

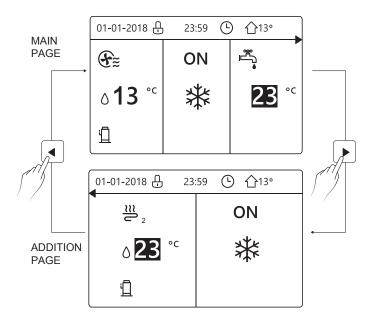
home page 3 :

If the DHW MODE is set NON, and if "WATER FLOW TEMP." is set YES, "ROOM TEMP." is set YES, There will be main page and additional page. The system has the function including floor heating and space cooling for fan coil, home page 3 will appear:



home page 4 :

If the DHW MODE is set YES. There will be main page and addition page. The system has the function including floor heating, space cooling for fan coil and domestic hot water, home page 4 will appear:



4 MENU STRUCTURE

4.1 About the menu structure

You can use the menu structure to read out and configure settings that are NOT meant for daily usage. What you can see and do in the menu structure is described where applicable.

4.2 To go to the menu structure

From a home page, press " 🖃 ". Result: The menu structure appear:

MENU 1/2	MENU 2/2
OPERATION MODE	SERVICE INFORMATION
PRESET TEMPERATURE	OPERATION PARAMETER
DOMESTIC HOT WATER(DHW)	FOR SERVICEMAN
SCHEDULE	WLAN SETTING
OPTIONS	SN VIEW
CHILD LOCK	
E ENTER	ENTER 🖨

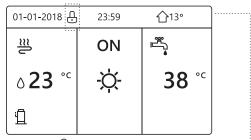
4.3 To navigate in the menu structure

Use"▼"、 "▲" to scroll.

5 BASIC USAGE

5.1 Screen Unlock

If the icon 💮 is on the screen, the controller is locked. The following page is displayed:



Press any key, the icon will flash. Long press the " " key. The icon will disappear, the interface can be controlled.

01-01-2018-	23:59	① 13°	
≋	ON		
∆ 23 ° ^c	-ờ-	38 ° ^c	
1			

The interface will be locked if there is no handing for a long time(about 120 seconds) If the inerface is unlocked, long press " \mathfrak{a} ", the interface will be locked.

01-01-2018	23:59	① 13°					
_ <u>≈</u>	ON	• س					
∂23 ° ^c	-ờ-	38 [∘]					
Ē							
Long press							
01-01-2018 은	23:59	① 13°					
_ <u>≈</u>	ON						
∂23 ° ^c	-ờ-	38 °℃					

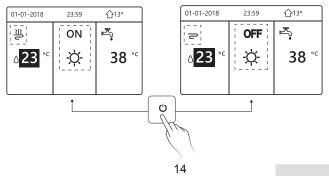
5.2 Turning ON/OFF controls

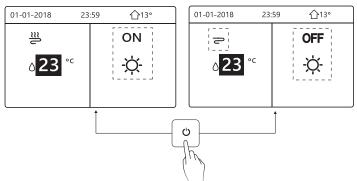
Use the interface to turn on or off the unit for space heating or cooling.

- The ON/OFF of the unit can be controlled by the interface if the ROOM TEHERMOSTAT is NON.(See "ROOM THERMOSTAT SETTING" in "Installation and owner's manual (M-thermal split indoor unit)")
- Press "◀ "、 "▲" on home page, the black cursor will appear:



1) When the cursor is on the temperature of space operation mode side (Including heat mode *** cool mode *** cool mode **** do " key to turn on/off space heating or cooling.





If the DHW TYPE is set NON, then following pages will display:

If the TEMP. TYPE is set ROOM TEMP. , then following pages will display:

01-01-2018	23:59	☆13°		01-01-2018	23:59	☆13°			
≝	ON	Ĩ Î Î		P	OFF	Ē,			
23,5°°	-ờ-	38 °℃		23,5 [℃]	Ŋ.	38 ℃			
	'				·				
		[ტ 						
	1 hrs								
\setminus (
15									

Use the room thermostat to turn on or off the unit for space heating or cooling.

① The room thermostat is SET YES(see "ROOM THERMOSTAT SETTING" on "Installation and owner's manual (M-thermal split indoor unit)") the unit is turned on or off by the room thermostat, press ひ on the interface, the following page will display:

01-01-2018	23:59	☆ 13°
Turning on or heating mode the room therr Please turn or heating mode thermostat.	is controlle nostat. n or off cool	ing/
CONFIRM		

② DUAL ROOM THERMOSTAT is set YES(see "ROOM THERMOSTAT SETTING" in "Installation and owner's manual (M-thermal split indoor unit)").The room thermostat for fan coil is turned off, the room thermostat for the floor heating is turned on, and the unit is running, but the display is OFF. The following page is displayed:

01-01-2018	23:59	습13°	01-01-2018 23:	59 介 13°
€≋	ON	الله ۱۱۱		ON
∆ <mark>38</mark> ° ^c	-ờ-	38 °⊂	23,5 ^{°°}	-ờ-

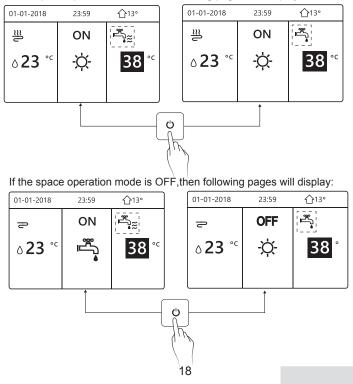
01-01-2018	23:59	① 13°	01-01-2018 23:	59 介 13°
Ð	OFF	° €	2 2	OFF
∂ 38 °°	-ờ-	38 [∘]	23,5 ^{°°}	-ờ-

Use the interface to turn on or off the unit for DHW.Press " \blacktriangleright ", " \forall "on home page, the black cursor will appear:

01-01-2018	23:59	① 13°
ີ≣	ON	************************************
∂23 ^{°c}	-ờ-	38 °℃

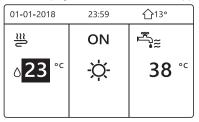
2) When the cursor is on DHW operation mode. Press " ${\ensuremath{\mathfrak{O}}}$ " key to turn on/off the DHW mode.

If the space operation is ON, then following pages will display:

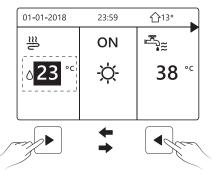


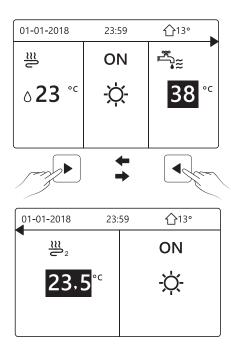
5.3 Adjusting the temperature

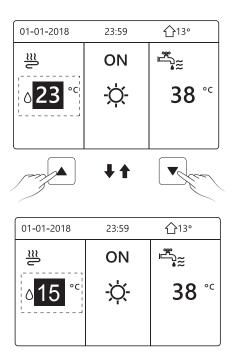
Press " \blacktriangleleft " \checkmark " on home page, the black cursor will appear:



If the cursor is on the temperature, use the "◄"、 "▶" to select and use
"♥"、 "▲" to adjust the temperature.





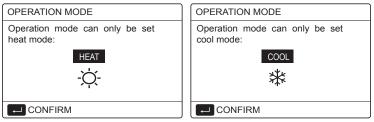


5.4 Adjusting space operation mode

OPER	OPERATION MODE			
Opera	tion mode	setting:		
	HEAT	000∟ ₩	AUTO	
CONFIRM 🕑			₽	

There are three modes to be selected including HEAT, COOL and AUTO mode. Use the "◄", "▶" to scroll, press " ← " to select. Even if you don't press ← button and exit the page by pressing ⊃ button, the mode would still effective if the cursor have be moved to the operation mode.

If there is only HEAT(COOL) mode, the following page will appear:



The operation mode can not be changed see cool MODE SETTING on installation and ower's manual.

If you select	Then the space operation mode is
-Ŏ- heat	Always heating mode
業 cool	Always cooling mode
(A) auto	Automatically changed by the software based on the outdoor temperature (and depending on installer settings of the indoor temperature), and takes monthly restrictions into account. Note: Automatic changeover is only possible under certain conditions. See the FOR SERVICEMAN> AUTO MODE SETTING in "Installation and ower's manual (M-thermal split indoor unit)".

 Adjust space operation mode by the room thermostat, see "ROOM THERMOSTAT" on "Installation and owner's manual (M-thermal split indoor unit)".

Go to \square >OPERATION MODE, if you press any key to select or adjust, the follpage will appear:

01-01-2018	23:59	☆13°
Cool/heat m the room the		trolled by
Please adjust by the room the second		on mode
	Λ	

6 Network Configuration Guidelines

- The wired controller realizes intelligent control with a built-in module, which receives control signal from the APP.
- Before connecting the WLAN, please check for it if the router in your environment is active and make sure that the wired controller is well-connected to the wireless signal.
- During the Wireless distribution process, the LCD icon " ? "flashes to indicate that the network is being deployed. After the process is completed, the icon " ? " will be constantly on.

6.1 Wired Controller Setting

The wired controller settings include AP MODE and RESTORE WLAN SETTING.

WLAN SETTING	
AP MODE	
RESTORE WLAN SETTING	
E ENTER	

- - Press" \leftarrow ", the following page will appear:

AP MODE		
Do you want to acti WLAN network and		
NO	YES	
	4	

Use "◄", "▶" to move to "YES", press " ← " to select AP mode. Select AP Mode correspondingly on the mobile device and continue the follow-up settings according to the APP prompts.

After enter Ap mode, if it's not connected with mobile phone, the LCD icon " $rac{1}{rac{1}{rac{2}}}$ " will flash 10 minutes then disappear.

If it's connected with the mobile phone, the icon " \clubsuit " will be constantly display.

Press" \leftarrow ", the following page will appear:

RESTORE WLAN SETTING		
Do you want to res WLAN setting and		
NO	YES	
CONFIRM	<▶	

Use " \blacktriangleleft ", " \triangleright " to move to "YES", press " \leftarrow " to restore WLAN setting. Complete the above operation and wireless configuration is reset.

6.2 Smart home appliances networking guidelines

Download MSmartLife App Scan the QR code below, or search for "MSmartLife" in Google play(Android devices) or App Store (ios devices) to download the app;



2 Register or Login account

Open the app and create a user account, if you already have one, just log in.



3 Add your appliance

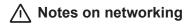
Tap the "+"icon to add home appliance to your MsmartLife account.



4 Connected to the network

Follow the instructions in the app to set up the WiFi connection. If the network connection fails, please refer to the App tips for operation.





- When networking the product, please make sure that the mobile phone is as close as possible to the product.
- According to the App tips, if the product only supports 2.4GHZ wifi communication, please note that the 2.4GHz network is selected for connection.
- Midea recommends WiFi router SSID names contain only alphanumeric values. If special characters, punctuation marks or spaces are used it might prevent the SSID name from showing up in the available networks to join in the App. Try it and if the SSID shows up then it is ok to use, otherwise log into the router and change the SSID name.

- A large number of devices on the WiFi router can affect network stability, there is no way that Midea can advise a specific number limitation as this depends on router quality and many other factors.
- If the router or WiFi name and WiFi password change, please repeat the above process to reconnect to the network.
- As the product technology is updated, the content of MSmartLife may change, and the actual display in MSmartLifeApp shall prevail.

Warning and troubleshooting for networking failures

When the product is connected to the network, please make sure that the phone is as close as possible to the product.

We only support 2.4GHz band routers at present.

 \wedge

Special characters (punctuation, spaces, etc.) are not recommended as part of the WLAN name.

It is recommended that you connect no more than 10 devices to a single router lest home appliances are affected by weak or unstable network signal.

If the password of the router or WLAN is changed, clear all settings and reset the appliance.

The contents of APP might change in version updates and actual operation shall prevail.

WIFI information

WIFI transmit frequency range:2.400 \sim 2.4835 GHz EIRP not more than 20dbm

7 INSTALLATION MANUAL

7.1 Safety precaution

- · Read the safety precautions carefully before installing the unit.
- Stated below are important safety issues that must be obeyed.
- Conform there is no abnormal phenomena during test operation after complete, then hand the manual to the user.
- Meaning of marks:

Means improper handling may lead to personal death or severe injury.

Means improper handling may lead to personal injury or property loss.

Please entrust the distributor or professionals to install the unit. Installation by other persons may lead to imperfect installation, electric shock or fire.

Strictly follow this manual.

Imporper installation may lead to electric shock or fire.

.....

Reinstallation must be performed by professionals.

improper installation may lead to electric shock or fire.

.....

Do not disassemble your air conditioner at will.

A random disassembly may cause abnormal operation or heating, which may result in fire.

Do not install the unit in a place vulnerable to leakage of flammable gases.

Once flammable gases are leaked and left around the wired controller, fire may occure.

.....

The wiring should adapt to the wired controller current.

Otherwise, electric leakage or heating may occur and result in fire.

The specified cables shall be applied in the wiring. No external force may be applied to the terminal.

Otherwise, wire cut and heating may occur and result in fire.

Do not place the wired remote controller near the lamps, to avoid the remote signal of the controller to be disturbed. (refer to the right figure)



7.2 Other Precautions

7.2.1. Installation location

Do not install the unit in a place with much oil, steam, sulfide gas. Otherwise, the product may deform and fail.

7.2.2 Preparation before installation

1) Check whether the following assemblies are complete.

No.	Name	Qty.	Remarks
1	Wired Controller	1	
2	Cross round head wood mounting screw	3	For Mounting on the Wall
3	Cross round head mounting screw	2	For Mounting on the Electrical Switch Box
4	Installation and Owner's Manual	1	
5	Plastic bolt	2	This accessory is used when install the centralized control inside the electric cabinet
6	Plastic expansion pipe	3	For mounting on the Wall

7.2.3 Note for installation of wired controller:

1) This installation manual contains information about the procedure of installing Wired Remote Controller. Please refer to Indoor Unit Installation Manual for connection between Wired Remote Controller and Indoor Unit.

2) Circuit of Wired Remote Controller is low voltage circuit. Never connect it with a standard 220V/380V circuit or put it into a same Wiring Tube with the circuit.

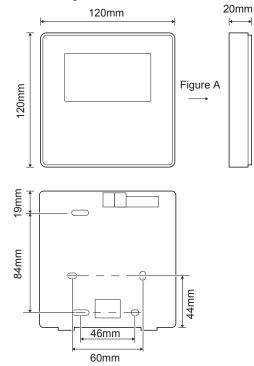
3) The shielded cable must be connected stable to the ground, or transmission may fail.

4) Do not attempt to extend the shielded cable by cutting, if it is necessary, use Terminal Connection Block to connect.

5) After finishing connection, do not use Megger to have the insulation check for the signal wire.

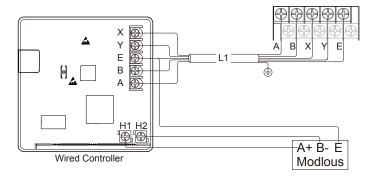
7.3 Installation procedure and matching setting of wired controller

7.3.1 Structure size figure

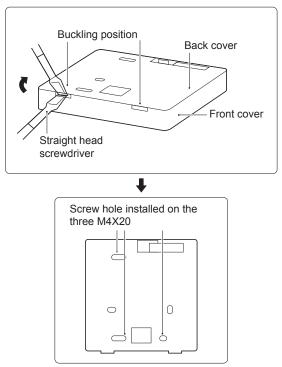


7.3.2 Wiring

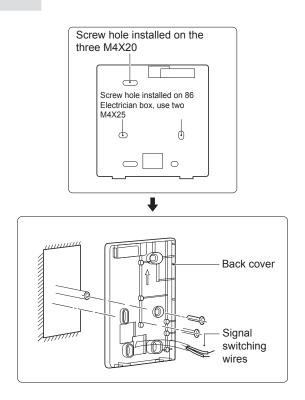
Input Voltage(A/B)	13.5VAC
Wiring size	0.75mm ²



7.3.3 Back cover installation



42



1) Use straight head screwdriver to insert in the buckling position in the bottom of wired controller, and spin the screwdriver to take down the back cover. (Pay attention to spinning direction, otherwise will damage the back cover!)

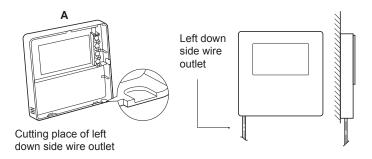
2) Use three M4X20 screws to directly install the back cover on the wall.

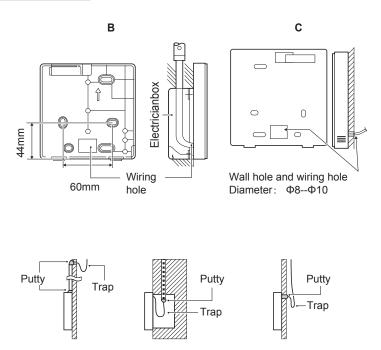
3) Use two M4X25 screws to install the back cover on the 86 electrician box, and use one M4X20 screws for fixing on the wall.

4) Adjust the length of two plastic screw bars in the accessory to be standard length from the electrical box screw bar to the wall. Make sure while installing the screw bar to the wall, making it as flat as the wall.

5) Use cross head screws to fix the wired controller bottom cover in the wall through the screw bar. Make sure the wired controller bottom cover is on the same level after installation, and then install the wired controller back to the bottom cover.

6) Over fastening the screw will lead to deform tion of back cover.



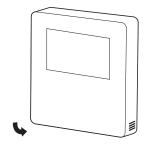


Avoid the water enter into the wired remote controller, use trap and putty to seal the connectors of wires during wiring installation.

7.4 Front cover installation

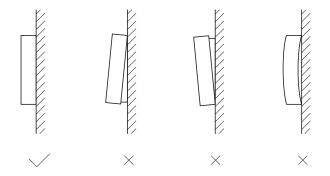
After adjusting the front cover and then buckle the front cover; avoid clamping the communication switching wire during installation.





Sensor can not be affected with damp.

Correct install the back cover and firmly buckle the front cover and back cover, otherwise will make the front cover drop off.



8 MODBUS MAPPING TABLE

8.1 Modbus Port Communication Specification

Port: RS-485; the wired controller XYE is the communication port for connecting with the hydraulic module. H1 and H2 are the Modbus communication ports.

Communication address: It is consistent with the DIP switch address of the hydraulic module.

Baud rate: 9600. Number of digits: Eight Verification: none Stop Bit: 1 bit Communication protocol: Modbus RTU (Modbus ASCII is not supported)

8.1.1 Mapping of registers in the wired controller

The following addresses can use 03H, 06H (write single register), 10H (write multiple register)

Register address	Description	Remark	(S
0	Power on or off.	BIT15	Reserved
(PLC:40001)		BIT14	Reserved
		BIT13	Reserved
		BIT12	Reserved
		BIT11	Reserved
		BIT10	Reserved
		BIT9	Reserved
		BIT8	Reserved
		BIT7	Reserved
		BIT6	Reserved
		BIT5	Reserved
		BIT4	Reserved
		BIT3	0: power off floor heating; 1: power on floor heating;(zone 2) (water flow temperature control)
		BIT2	0: DHW(T5S) power off; 1: DHW(T5S) power on
		BIT1	0: power off floor heating; 1: power on floor heating;(zone 1) (water flow temperature control)
		BIT0	0: power off air conditioner; 1: power on air conditioner; (zone 1) (room temperature control)

1(PLC: 40002)	Setting the mode	1: Auto; 2:	Cool; 3: Heat; Others: Invalid		
	Setting water water temperature T1S	Bit8-Bit15	Water temperature T1s is corresponding to the floor heating.(zone 2)		
2(PLC: 40003)		Bit0-Bit7	Water temperature T1s is corresponding to the floor heating.(zone 1)		
3(PLC: 40004)	Setting air temperature Ts		The room temperature range is between 17°C and 30°C, and is valid when there is Ta. Portocol value=actual value*2		
4(PLC: 40005)	T5s	The water ta	The water tank temperature range is between 20°C and 60°C.		
		BIT15	Reserved		
		BIT14	Reserved		
		BIT13	1: climate curve setting is valid; 0: climate curve setting is invalid. (zone2)		
		BIT12	1: climate curve setting is valid; 0: climate curve setting is invalid. (zone1)		
		BIT11	DHW pump's running constant-temperature water recycling		
		BIT10	ECO mode		
5(PLC: 40006)		BIT9	Reserved		
	Function Setting	BIT8	Holiday home (the status can only be read, not changed)		
		BIT7	0: Silent mode level1; 1: Silent mode level2		
		BIT6	Silent mode		
		BIT5	Holiday away (the status can only be read, but cannot be changed)		
		BIT4	Disinfect		
		BIT3	Reserved		
		BIT2	Reserved		
		BIT1	Reserved		
		BIT0	Reserved		
6 (PLC: 40007)	Curve selection	Bit8-Bit15	Climate Curve 1-9(zone 2)		
. ,		Bit0-Bit7	Climate Curve 1-9(zone 1)		
7(PLC: 40008)	Forced water heating	0: Invalid 1: Forced on	TBH is the electric water tank heater. IBH1 and 2 are the hydraulic module's rear electric heater. IBH1 and 2 can be activated together.		
8 (PLC: 40009)	Forced TBH	2: Forced	TBH cannot be activated together with IBH1 and IBH2.		
9(PLC: 40010)	Forced IBH1	511			
10(PLC: 40011)	t_SG_MAX		0-24 Hours		
11(PLC: 40012)	T1S	Water ten	nperature T1S is corresponding to the floor heating.(zone 1)		
12(PLC: 40013)	T1S	Water ten	nperature T1S is corresponding to the floor heating.(zone 2)		
13(PLC: 40014)	t_ANTILOCK	Default se	etting: 5, range: 0~60 S(Available in Sphera A)		
In cooling mode, T1	perature T1s setting range instruct IS low temp setting range is 5~25		emp setting range is 18~25°C.		

In heating mode, T1S low temp setting range is 25~55°C;T1S high temp setting range is 35~65°C.

8.1.2 When the wired controller is connected to the hydraulic module, the parameters of the whole unit can be checked:

The following address table can only use 03H function code(Read register).

1) Running parameters				
Register address	Description	Remarks		
100(PLC: 40101)	Operating frequency	Compressor operating frequency in Hz		
101(PLC: 40102)	Operating Mode	Outdoor unit's actual operating mode, 2: cooling, 3: heating, 0: off		
102(PLC: 40103)	Fan Speed	Fan speed, in r/min		
103(PLC: 40104)	PMV openness	Openness of the outdoor unit's electronic expansion valve in P		
104(PLC: 40105)	Water inlet temperature	TW_in, unit: °C		
105(PLC: 40106)	Water outlet temperature	TW_out, unit: °C		
106(PLC: 40107)	T3 Temperature	Condenser temperature, unit: °C		
107(PLC: 40108)	T4 Temperature	Outdoor ambient temperature unit: °C		
108(PLC: 40109)	Discharge temperature	Compressor discharge temperature Tp unit: °C		
109(PLC: 40110)	Suction temperature	Compressor suction temperature Th, unit:°C		
110(PLC: 40111)	T1	System total water outlet temperature (behind the auxiliary heater) ,unit: $^\circ$ C		
111(PLC: 40112)	Tw2	Zone 2 water flow temperature , unit: °C		
112(PLC: 40113)	T2	Refrigerant liquid side temperature, unit: °C		
113(PLC: 40114)	T2B	Refrigerant gas side temperature, unit: °C		
114(PLC: 40115)	Та	Room temperature, unit: °C		
115(PLC: 40116)	Т5	Water tank temperature, unit: °C		
116(PLC: 40117)	Pressure 1	Outdoor unit high pressure value, unit: kPa		
117(PLC: 40118)	Pressure 2	Outdoor unit low pressure value, unit: kPa		
	Outdoor unit current	Outdoor unit operating current, unit: A		
119(PLC: 40120)	Outdoor unit voltage	Outdoor unit voltage, unit: V		
120(PLC: 40121)	Tbt1	Tbt1, unit: °C		
121(PLC: 40122)	Tbt2	Tbt2, unit: °C		
122(PLC: 40123)	Compressor operation time	Compressor operating time in hour		
123(PLC: 40124)		0702 for 200 register is reserved. When it is 071x, data 4- 30 means 4-30kW		
124(PLC: 40125)	Current fault	Check the code table for detailed fault codes		
125(PLC: 40126)				
126(PLC: 40127)	Fault 2	Check the code table for detailed fault codes.		
127(PLC: 40128)	Fault 3			
		E 4		

Whole unit parameter mapping address table

		BIT15	request; 0: not request
		BIT14	Request to send software version, 1: request; 0: not request
		BIT13	Request to send SN code, 1: request; 0: not request
		BIT12	Reserved
		BIT11	EUV 1: free electricity; 0: judge by SG's signal
		BIT10	SG 1: normal electricity; 0: high price electr icity (judge when EUV is 0)
		BIT9	Anti-freezing operation for water tank
128(PLC: 40129)	Status bit 1	BIT8	Solar energy signal input
		BIT7	Cooling mode set by room thermostat
		BIT6	Heating mode set by room thermostat
		BIT5	Outdoor unit test mode mark
		BIT4	Remote On/Off (1: d8)
		BIT3	Oil return
		BIT2	Anti-freezing
		BIT1	Defrosting
		BIT0	Reserved
		BIT15	DEFROST
		BIT14	Auxiliary heat source
		BIT13	RUN
		BIT12	ALARM
		BIT11	Solar water pump
	Load output	BIT10	HEAT4
		BIT9	SV3
129(PLC: 40130)		BIT8	Mixed water pump P_c
129(FLC. 40130)		BIT7	Water return water P_d
		BIT6	External water pump P_o
		BIT5	SV2
		BIT4	SV1
		BIT3	Water pump PUMP_I
		BIT2	Electric heater TBH
		BIT1	Electric heater IBH2
		BIT0	Electric heater IBH1
130(PLC: 40131)	Software version	1~99 is	s the software version of hydronic module
131(PLC: 40132)	Wired controller version No.	1~99 is	s the wired controller's version number.

132(PLC: 40133)	Unit target frequency	Hz		
133(PLC: 40134)	DC bus current	Unit: A		
134(PLC: 40135)	DC bus voltage	The actual v	alue/10, unit: V	
135(PLC: 40136)	TF module temperature	Feedback o	n outdoor unit, unit: °C	
136(PLC: 40137)	Climate curve		onding calculated T1S of zone 1	
137(PLC: 40138) Climate curve T1S calculated value 2		The corresp	onding calculated T1S of zone 2	
138(PLC: 40139)	Water flow	The actual value*100, unit: m3/H		
139(PLC: 40140)	Limit scheme of outdoor unit current	Scheme value		
140(PLC: 40141)	.C: 40141) Ability of Hyd raulic module		alue*100, unit: kW	
141(PLC: 40142)	Tsolar	Tsolar		
142(PLC: 40143)	Quantity of units in parallel	BIT1-BIT15	Respectively represent the online status of slaves unit 1-15	
	paraner	BIT0	Reserved	
143(PLC: 40144)	Higher bits for electricity consumption			
144(PLC: 40145)	Lower bits for electricity consumption			
145(PLC: 40146)	Higher bits for power output			
146(PLC: 40147)	Lower bits for power output			

Note :

1. When Tw2 unavailable, "25" would display in upper unit address 113.

2. When T2B unavailable, the wired controller would display"--" and "25" would display in upper unit address 113.

3. When Ta unavailable, "25" would display in upper unit address 114.

4. When E series without Tbt1、Tbt2 the wired controller would display"--" and "0" would display in upper unit addresses 120 and 121.

The following register address 200-208 can only use 03H(Read register) function code.Register address 209 and follows can use 03H, 06H (write single register), 10H (write multiple register).

Parameter setti	ng			
Register address	Description	Remarks		
200(PLC: 40201)	Home appliance type	The upper 8 bils are the types of home appliances: Air to water heat pump: 0x07 The middle 4 bits are product codes: 0x1* The lower 4 bits are sub-type: R32: 0x*2		
201(PLC: 40202)	Temperature upper limit of T1S cooling	Lower 8 bits are for zone 1. higher 8 bits are for zone 2		
202(PLC: 40203)	Temperature lower limit of T1S cooling	Lower 8 bits are for zone 1. higher 8 bits are for zone 2		
203(PLC: 40204)	Temperature upper limit of T1S heating	Lower 8 bits are for zone 1. higher 8 bits are for zone 2		
204(PLC: 40205)	Temperature lower limit of T1S heating	Lower 8 bits are for zone 1. higher 8 bits are for zone 2		
205(PLC: 40206) Temperature upper limit of TS setting		Protocol value = actual value * 2		
206(PLC: 40207)	Temperature lower limit of TS setting	Protocol value = actual value * 2		
207(PLC: 40208)	Temperature upper limit of water heating			
208(PLC: 40209)	Temperature lower limit of water heating			
209(PLC: 40210)	PUMP RUNNING TIME	DHW PUMP water return running time. It is five minutes by default and can be adjusted between 5 and 120 min at an interval of 1 min.		
210(PLC: 40211)	Parameter setting 1	BIT15 Enable water heating BIT14 Supports water tank electric heater TBH(Read-only) BIT13 Supports disinfection BIT13 DHW PUMP, 1: supported; 0: not supported BIT11 Reserved BIT10 DHW PUMP, 1: supported; 0: not supported BIT11 Reserved BIT10 DHW Pump is valid in disinfection mode BIT11 Brance BIT11 Decoling highlow temperature settings(Read-only) BIT7 Enable heating BIT6 PIS Cooling highlow temperature settings(Read-only) BIT7 Enable heating BIT8 Supports room temperature settings(Read-only) BIT9 DINF silent mode; 1: valid, 0: invalid BIT3 Supports room temperature sensor Ta BIT3 Supports room termostat BIT3 Room thermostat BIT1 Dual Room Thermostat, 0: not supported;1: supported BIT0 D: or concolar/beating first, 1: water heating first		

211(PLC: 40212) Parameter s etting 2 BIT 5 ACS(Double water tank control) 1: Yes 0: No (read only) BIT 14 M1M2 is used for AHS control 1: Yes 0: No BIT 13 RT_Ta_PCNEn(enable Temperature Collection Kit) Yes 0: No BIT 12 Tbt2 sensor is valid 1: Yes 0: No BIT 10 Solar energy input port 1: CN18 0: CN11 BIT 10 Solar energy input port 1: CN18 0: CN11 BIT 2 Tbt2 sensor enable 1: Yes 0: No BIT 3 Solar energy input port 1: CN18 0: CN11 BIT 4 Define the port, 0=remote ON/OFF; 1=DHW heater BIT 5 Solar energy inplhy tore 1: Yes BIT 6 Tw2 sensor enable 0: None 1: Yes BIT 6 Tw2 sensor enable 0: None 1: Yes BIT 6 Tw2 sensor enable 0: None 1: Yes BIT 6 Tw2 sensor enable 0: None 1: Yes BIT 7 Smart grid, 0=NON; 1=YES BIT 6 Tw2 sensor enable 0: None 1: Yes BIT 6 Tw2 sensor enable 0: None 1: Yes BIT 7 Going high/low temperature setting T1S2 for Zone 2 (read only) BIT 4	1:		
211(PLC: 40212) Parameter s etting 2 BIT14 M1M2 is used for AHS control 1: Yes 0: No BIT14 M1M2 is used for AHS control 1: Yes 0: No BIT13 RT_Ta_PCNEn(enable Temperature Collection Kit) Yes 0: No BIT12 Tbt2 sensor is valid 1: Yes 0: No BIT11 Piping length selection 1: -100m 0: <10m	1:		
211(PLC: 40212) Parameter s etting 2 BIT13 BIT2 BIT3 BIT4 BIT4 BIT4 BIT5 BIT5 BIT5 BIT5 BIT5 BIT5 BIT5 BIT5	1:		
211(PLC: 40212) Parameter s etting 2 BIT12 Tbt2 sensor is valid 1: Yes 0: No BIT12 Tbt2 sensor is valid 1: Yes 0: No BIT11 Piping length selection 1: >10m 0: <10m	1:		
211(PLC: 40212) Parameter s etting 2 BIT2 Tb12 sensor is valid 1: Yes 0: No BIT11 Tb12 sensor is valid 1: Yes 0: No BIT11 Piping length selection 1: >10m 0: <10m			
211(PLC: 40212) Parameter s etting 2 BIT11 Piping length selection 1: >10m 0: <10m			
211(PLC: 40212) Parameter s etting 2 BIT10 Solar energy input port 1: CN18 0: CN11 BIT9 Solar energy kit enable 1: Yes 0: No BIT8 Define the port, 0=remote ON/OFF; 1=DHW heater BIT7 Smart grid, 0=NON; 1=YES BIT6 Tw2 sensor enable 0: None 1: Yes BIT5 Cooling high/low temperature setting T1S2 for Zone 2 (read only) BIT4 Heating high/low temperature setting T1S2 for Zone 2			
211(PLC: 40212) Parameter s etting 2 BIT9 Solar energy kit enable 1: Yes 0: No BIT8 Define the port, 0=remote ON/OFF; 1=DHW heater BIT7 Smart grid, 0=NON; 1=YES BIT6 Tw2 sensor enable 0: None 1: Yes BIT5 Cooling high/low temperature setting T1S2 for Zone 2 (read only) BIT4 Heating high/low temperature setting T1S2 for Zone 2			
211(PLC: 40212) Parameter s etting 2 BIT8 Define the port, 0=remote ON/OFF; 1=DHW heater BIT7 Smart grid, 0=NON; 1=YES BIT6 Tw2 sensor enable 0: None 1: Yes BIT5 Cooling high/low temperature setting TIS2 for Zone 2 (read only) BIT4 Heating high/low temperature setting TIS2 for Zone 2			
BITS Define the port, DEfemote DONOFF, TEDHW heater BIT7 Smart grid, 0=NON; T=YES BIT6 Tw2 sensor enable 0: None 1: Yes BIT5 Cooling high/low temperature setting T1S2 for Zone 2 (read only) BIT4 Heating high/low temperature setting T1S2 for Zone 2			
BIT6 Tw2 sensor enable 0: None 1: Yes BIT5 Cooling high/low temperature setting T1S2 for Zone 2 (read only) BIT4 Heating high/low temperature setting T1S2 for Zone 2			
BIT5 Cooling high/low temperature setting T1S2 for Zone 2 (read only) BIT4 Heating high/low temperature setting T1S2 for Zone 2	ļ		
(read only) BIT4 Heating high/low temperature setting T1S2 for Zone 2			
(read only) BIT4 Heating high/low temperature setting T1S2 for Zone 2	-		
(read only)			
BIT3 Double zone setting is valid	-		
BIT2 Ta sensor position 1: IDU 0: HMI	-		
BIT1 Tbt1 sensor enable1: Yes 0: No	-		
BIT0 IBH/AHS installation position 1: buffer tank 0: pipe	С		
212(PLC: 40213) dT5 On Default setting: 10° C, range: 1~30° C;	Bill and a second of the ball		
213(PLC: 40214) dT1S5 Default setting: 10° C, range: 5~40° C, setting interval: 1°			
214(PLC: 40215) T Interval DHW Default setting: 5 min, range: 5~5 min, setting interval: 1 min	-		
215(PLC: 40216) T4DHWmax Default setting: 43°C, range: 35~43°C, setting interval: 1°C	-		
216(PLC: 40217) T4DHWmin Default: -10° C, range: -25~30° C;	-		
Default setting: 30 min, range: 0~240 min, setting interval	5		
217(PLC: 40218) t_TBH_delay min	J		
218(PLC: 40219) dT5S TBH off Default setting: 5°C, range: 0~10°C, setting interval: 1°C			
219(PLC: 40220) T4 TBH on Default setting: 5° C, range: -5~50° C;			
220(PLC: 40221) T5s DI	C,		
default setting: 65°C	- D		

221(PLC: 40222)	t_DI_max	Maximum disinfection duration, range: 90~300 min, default setting: 210 min	
222(PLC: 40223)	t_DI_hightemp	Disinfection high temperature duration, range: 5~60 min, default setting: 15 min	
223(PLC: 40224)	t_interval_C	Time interval of compressor start-up in cooling mode; range: 5~5 min, default setting: 5 min	
224(PLC: 40225)	dT1SC	Default setting: 5°C, range: 2~10°C, setting interval: 1°C	
225(PLC: 40226)	dTSC	Default setting: 2°C, range: 1~10°C, setting interval: 1°C	
226(PLC: 40227)	T4cmax	Default setting: 52°C, range: 35~52°C, setting interval: 1°C	
227(PLC: 40228)	T4cmin	Default setting: 10°C, range: -5~25°C, setting interval: 1°C	
228(PLC: 40229)	t_interval_H	Time interval of compressor start-up in the heating mode; range: 5~5 min, default setting: 5 min	
229(PLC: 40230)	dT1SH	Default setting: 5°C, range: 2-20°C;	
230(PLC: 40231)	dTSH	Default setting: 2°C, range: 1~10°C, setting interval: 1°C	
231(PLC: 40232)	T4hmax	Default setting: 25°C, range: 20~35°C, setting interval: 1°C	
232(PLC: 40233)	T4hmin	Default setting: -15°C, range: -25-30°C, Setting interval1°C	
233(PLC: 40234)	T4_IBH_on	Ambient temperature for enabling the hydraulic module auxiliary electric heating IBH, range: -15~10°C; default setting: -5°C	
234(PLC: 40235)	dT1_IBH_on	Temperature return difference for enabling the hydraulic module auxiliary, range: 2~10°C; default setting: 5°C	
235(PLC: 40236)	t_IBH_delay	Delay time of enabling the hydraulic module auxiliary electric heating IBH,range: 15~120 min; default setting: 30 min	
237(PLC: 40238)	T4_AHS_on	The trigger ambient temperature for turning on AHS range: -15~30°C;default setting: -5°C	
238(PLC: 40239)	dT1_AHS_on	The temperature difference between the heat pump 's leaving water set temperature (T1S) and the heat,range: 2~20°C; default setting: 5°C	
240(PLC: 40241)	t_AHS_delay	Delay time for enabling the external heater AHS, range: 5~120 min; default setting: 30 min	

241(PLC: 40242)	t_DHWHP_max	Longest duration of water heating by the heat pump, range: 10~600 min, default setting: 90 min;
242(PLC: 40243)	t_DHWHP_restrict	Duration of limited water heating by the heat pump, range: 10~600 min, default setting: 30 min;
243(PLC: 40244)	T4autocmin	Default setting: 25°C, range: 20~29°C, setting interval: 1°C
244(PLC: 40245)	T4autohmax	Default setting: 17°C, range: 10~17°C, setting interval: 1°C
245(PLC: 40246)	T1S_H.A_H	Default setting: 25°C, range: 20~25°C, setting interval: 1°C
246(PLC: 40247)	T5S_H.A_DHW	In the holiday mode, setting of T1 in the water heating mode, range: 20~25°C, default setting: 25°C
247(PLC: 40248)	PER_START ratio	Range10-100, default setting10.Setting interval10
248(PLC: 40249)	TIME_ADJUST	Range1-60 default setting5
249(PLC: 40250)	dTbt2	Rrange0-50 default setting15
250(P LC: 40251)	IBH1 power	Range0-200, default setting0, unit: 100W
251(PLC: 40252)	IBH2 power	Range0-200, default setting0, unit: 100W
252(P LC: 40253)	TBH power	Range0-200, default setting0,unit: 100W
253(PLC: 40254	Comfort parameter	Reserved, wrong address is reported whe n this register is queried
254(P LC: 40255)	Comfort parameter	Reserved, wrong address is reported whe n this register is queried
255(PLC: 40256)	t_DRYUP	Temperature rise day number, range: 4~15 days, default setting: 8 days
256(PLC: 40257)	t_HIGHPEAK	Drying day number, range: 3~7 days, default setting: 5 days
257(PLC: 40258)	t_DRYD	Temperature drop day number, range: 4~15 days, default setting: 5 days
258(PLC: 40259)	T_DRYPEAK	Highest drying temperature, range: 30~55°C, default setting: 45° C
259(PLC: 40260)	t_firstFH	Running time of floor heating for the first time, default setting: 72 hrs, range: 48-96 hrs
260(PLC: 40261)	T1S (first floor heating)	T1S of floor heating for the first time, range: 25~35 $^\circ\text{C},$ default setting: 25 $^\circ\text{C}$

261(PLC: 40262)	T1SetC1	Parameter of the ninth temperature curves for cooling mode, range: 5~25°C, default setting: 10°C
262(PLC: 40263)	T1SetC2	Parameter of the ninth temperature curves for cooling mode, range: 5~25°C, default setting: 16°C
263(PLC: 40264)	T4C1	Parameter of the ninth temperature curves for cooling mode, range: (-5) ~46°C, default setting: 35°C
264(PLC: 40265)	T4C2	Parameter of the ninth temperature curves for cooling mode, range: (-5) ~46°C, default setting: 25°C
265(PLC: 40266)	T1SetH1	Parameter of the ninth temperature curves for heating mode, range: 25~65°C, default setting: 35°C
266(PLC: 40267)	T1SetH2	Parameter of the ninth temperature curves for heating mode, range: 25~65°C, default setting: 28°C
267(PLC: 40268)	T4H1	Parameter of the ninth temperature curves for heating mode, range: (-25) ~35°C, default setting: -5°C
268(PLC: 40269)	T4H2	Parameter of the ninth temperature curves for heating mode, range: (-25) ~35°C, default setting: 7°C
269(PLC: 40270)	POWER INPUT LIMITATION	The type of power input limitation, 0=NON, 1~8=type 1~8, default: 0
	HB: t_T4_FRESH_C	Range: 0.5~6 hour, setting interval: 0.5 hour, sending value=actural value*2
270(P LC: 40271)	LB: t_T4_FRESH_H	Range: 0.5~6 hour, setting interval: 0.5 hour, sending value=actural value*2
271(PLC: 40272)	T_PUMPI_DELAY	Range: 0.5~20 hour, setting interval: 0.5 hour, sending value=actural value*2
272(PLC: 40273)	EMISSION TYPE	Bit12-15: The type of zone 2 end for cooling mode Bit8-11: The type of zone 1 end for cooling mode Bit4-7: The type of zone 2 end for heating mode Bit0-3: The type of zone 1 end for heating mode

8.1.3 Code table

Error code	Value	Content			
E0	1	Water flow fault(E8 displayed 3 times)			
E1	2	Phase loss or neutral wire and live wire are connected reversely(only for three phase unit)			
E2	3	Communication fault between controller and hydraulic module			
E3	4	Final outlet water temp. sensor(T1) fault			
E4	5	Water tank temp. sensor(T5) fault			
E5	6	The condenser outlet refrigerant temperature sensor(T3) fault			
E6	7	The ambient temperature sensor(T4) fault			
E7	8	Buffer tank up temp. sensor(Tbt1) fault			
E8	9	Water flow failure			
E9	10	Suction temp. sensor (Th) fault			
EA	11	Discharge temp. sensor (Tp) fault			
Eb	12	Solar temp. sensor(Tsolar) fault			
Ec	13	Buffer tank low temp. sensor(Tbt2) fault			
Ed	14	Inlet water temp. sensor(Tw_in) malfunction			
EE	15	Hydraulic module EEprom failure			
P0	20	Low pressure switch protection			
P1	21	High pressure switch protection			
P3	23	Compressor overcurrent protection			
P4	24	High discharge temperature protection			
P5	25	Tw_out - Tw_in value too big protection			
P6	26	Inverter module protection			
Pb	31	Anti-freeze mode			
Pd	33	High temperature protection of refrigerant outlet temp. of condenser			
PP	38	Tw_out - Tw_in unusual protection			
H0	39	Communication fault between main board PCB B and main control board of hydraulic module			
H1	40	Communication fault between inverter module PCB A and main control board PCB B			
H2	41	Refrigerant liquid temp. sensor(T2) fault			
H3	42	Refrigerant gas temp. sensor(T2B) fault			
H4	43	Three times L0/L1 protection			
H5	44	Room temo. sensor (Ta) fault			
H6	45	DC fan motor fault			
H7	46	Voltage protection			

Error code	Value	Content			
H8	47	Pressure sensor fault			
H9	48	Dutlet water for zone 2 temp. sensor(Tw2) fault			
HA	49	Dutlet water temp. sensor(Tw_out) fault			
Hb	50	3 times PP protection and Tw_out<7℃			
Hd	52	Communication fault between hydraulic module parallel			
HE	53	Communication error between main board and thermostat transfer board			
HF	54	Inverter module board EE PROM fault			
HH	55	H6 display 10 times in 2 hours			
HP	57	Low pressure protection (Pe<0.6) occurred 3 times in 1 hour			
C7	65	Transducer module temperature too high protection			
bH	112	PED PCB fault			
F1	116	Low DC generatrix voltage protection			
L0	134	Module protection			
L1	135	DC generatrix low voltage protection			
L2	136	DC generatrix high voltage protection			
L4	138	MCE fault			
L5	139	Zero speed protection			
L7	141	Phase sequence fault			
L8	142	Speed difference > 15Hz protection between the front and the back clock			
L9	143	Speed difference > 15Hz protection between the real and the setting speed			

NOTE

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NOTE

NOTE

1611060000646 V.B

此页不做菲林, 仅核对使用

印刷技术要求

材质	封面 双胶纸 120g,内页 双胶纸80g
规格	120*120(双面)
颜色	黑白
其他	

设计更改记录表 (仅做说明用, 不做菲林)

版本升级	更改人	更改日期	更改主要内容	涉及更改页面 (印刷页码)
A>B	陈厚生	2022-01-26	点位表修改	P55-P58