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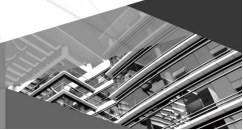


Owner's Manual **Original Instructions**

S2S KNX Gateway

Model:
ME30-24/F1(K)

Thank you for choosing commercial air conditioners. Please read this Owner's Manual carefully before operation and retain it for future reference.



To Users

Thank you for selecting Our product. Before installing the product, please read this instruction manual carefully to know well about the product and use it correctly. In order to install and use the product correctly to reach the expected operational effect, the following instructions are hereby issued:

(1)The appliance is not intended to be used by the people with physical, sensory or mental handicap or the people without using experience and knowledge (including children), except that they are supervised or guided by a person responsible for their safety when using the appliance. Children should be supervised to ensure that they do not play with the appliance.

(2)This instruction manual is a general version, some functions are only applicable to specific product, so all the illustrations and information in the instruction manual are only for reference, the control interface should be subject to the actual product.

(3)In order to better meet the customers' demand, our company will improve the product continuously and we have the right to conduct necessary modification at any time due to the reason of sales or production, and will reserve the right of modification without further notification.

(4)We will bear no responsibility for the personal injury, property loss or damage of equipment due to improper installation and debugging, unnecessary

maintenance, non-observance of related national laws, regulations, and industrial standards, violation of any stipulations of this instruction manual, etc.

(5)The final authority for the interpretation of this instruction manual belongs to AlpicAir.

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1 User Notices

Distinguished users:

Before installing or use this appliance, please read this instruction manual carefully, and install and use according to the process stipulated in the instruction manual.

The following marks should be specially noted:

 Warning!	It means misoperation may cause personal casualty or severe injury.
 Caution!	It means misoperation may cause damage of unit.

 Warning!	
(1) It should be installed by professional personnel, improper installation may cause fire or electric shock.	
(2) Insert the socket only after ensuring the socket of power cord is dry and clean.	
(3) Before touching the electric components, please make sure that the appliance is power-failed.	
(4) Please do not touch this appliance with wet hands, which may cause electric shock.	
(5) Please use the power cord with designated specification; poor contact or improper installation may cause fire hazard.	
(6) Power of this equipment is supplied by IDU of air conditioner; it is not allowed to connect other power source into this equipment, otherwise it may cause fire hazard and damage the appliance.	
(7) For the equipment with power plug, the power socket should be installed near the equipment for convenient using.	

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(8) Please do install the appliance inside the inapproachable and locked electric control cabinet indoors.

(9) Please install this appliance in the place where is without interference of electromagnetic wave or dust.



(1) It is not allowed to install the equipment in wet place or under direct sunlight.

(2) Please make sure that the equipment is installed in the correct position, otherwise it may cause communication error.

(3) Make sure that the communication wire is connected into the correct interface, otherwise it may cause communication error.

(4) After connecting the wires, please use insulated adhesive tape to protect the wire to prevent oxidation or short circuit.

(5) Requirement for normal working environment of S2S KNX Gateway:

① Temperature: 0°C ~ +45°C ;

② Humidity: less than 85%, except for the condensation of dew;

③ It should be installed inside the electric control cabinet and prevent direct sunlight, rain, snow, etc.

(6) All the illustrations in the instruction manual are only for reference.

2 Display

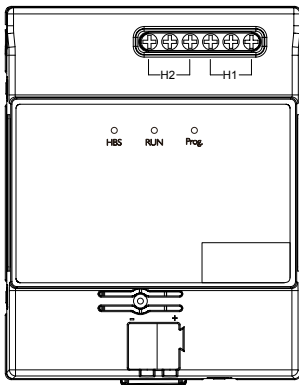


Fig.2.1

S2S KNX Gateway can connect AlpicAir air conditioner into KNX system.

Compatibility:

All IDUs of GMV5 series for export.

Major features:

- (1) Save space, it is installed inside the electric control cabinet;
- (2) Fast and concealed installation;
- (3) No need to supply extra power;

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- (4) Can directly connect to KNX EIB bus bar;
- (5) Can directly connect to AlpicAir IDU;
- (6) Multiple controllable objects (including different types: bit, byte...)
- (7) Support 4 preset scenes;
- (8) Can be monitored via KNX bus bar, including status and error information of air conditioner.

3 Introduction to Functions

3.1 Indicators

HBS indicator: if the communication between S2S KNX Gateway and the unit is normal, the HBS indicator will be on constantly; if there is communication error between S2S KNX Gateway and the unit, the indicator is off.

RUN indicator: if the S2S KNX Gateway works normally, RUN indicator flashes.

Prog. indicator: when the indicator is on, it means the S2S KNX Gateway is under programming status; when the indicator is off, it means the S2S KNX Gateway quits programming status.

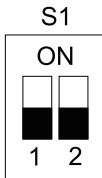
3.2 Functional Dial Codes

Setting area of S2S KNX Gateway DIP switch is located inside the product.

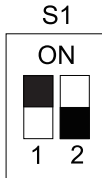
The first knob of functional dialer S1 is used for setting the master and slave HBS equipment, after altering the setting of master and slave HBS

equipment, it will come into force only after re-energizing the gateway. When the first bit is in number end, it is set as master HBS equipment, when the first bit is in ON end, it is set as slave HBS equipment.

The second bit of functional dialer S1 is reserved.



master HBS equipment



slave HBS equipment

Remark: the default S2S KNX Gateway is master HBS equipment. When there is multiple equipment in the HBS bus bar, it is recommended to set the S2S KNX Gateway as slave equipment, the wired controller as master equipment.

3.3 Program Button

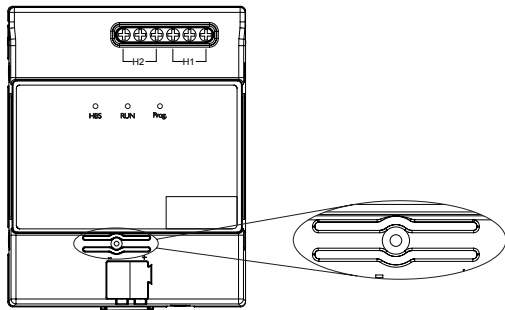


Fig.3.3

Program button: as shown in the above picture, it is used for making the S2S KNX Gateway enter/quit programming status. When the physical address of equipment is altered via ETS5, please press the program button (ETS5 will prompt) to make the S2S KNX Gateway enter into program status (module program indicator is on).

4 Wire Connection and Installation

Connect to IDU:

First, cut off the power of IDU. Open the interface panel of IDU and find the HomeBus wire terminals (H1, H2), and use twisted pair to connect the H1 and

H2 of IDU with the H1 and H2 of S2S KNX Gateway, there is no requirement for polarity.

Note: S2S KNX Gateway only supports one-to-one connection with IDU.

Material type	Total length of communication wire L (m)	Wire diameter (mm ²)	Material standard	Remark
Shielding light/ general PVC sleeve twisted pair copper core soft wire (RVVSP)	L≤250	≥2×0.75	IEC 60227- 5:2007	When the unit is installed in the environment with strong magnetism or strong interference, it should adopt RVVSP.

It can work with wired controller. Topological graph is shown as below:

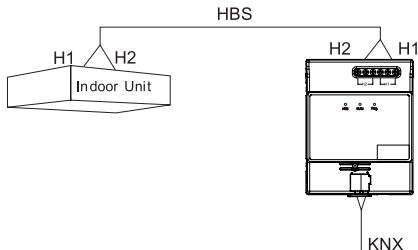


Fig.4.1 Wire connection for HBS single equipment

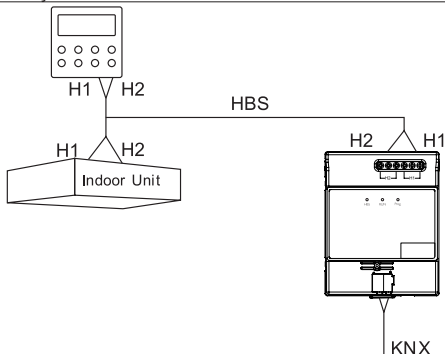


Fig.4.2 Wire connection for wired controller

Connect to KNX system:

Use standard EIB bus bar to connect the KNX+ (red) of S2S KNX Gateway to the KNX system bus bar KNX+, and connect the KNX- (black) to the KNX system bus bar KNX-, there is requirement for polarity.

Requirement of communication wire material:

Material and length of communication wire should be selected according to KNX standard strictly.

Installation:

Adopt standard 35mm guide rail installation method, as shown as below:

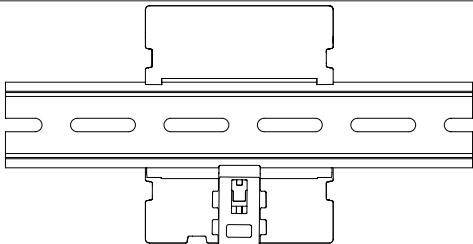


Fig.4.3

5 ETS5 Configuration

This gateway is standard KNX bus bar equipment, which should be set with the standard configuration tool ETS software of KNX system. It is recommended to use ETS5.

Product database and related data of S2S KNX Gateway can be acquired from the following website:

<http://gbms.AlpicAir.com>

Please read the downloaded Readme.txt inside the zip package before using. The content of Readme.txt include the installation method of product database of S2S KNX Gateway.

After importing the database of S2S KNX Gateway to ETS5, it will display the communication objects as shown in Fig.5.1:

- 15.1.1 S2S-KNX
 - 1: On/Off - Control
 - 2: Mode - Control
 - 3: Mode+/- - Control
 - 4: Fan Speed - Control
 - 5: Fan Speed +/- - Control
 - 6: Vanes U-D Swing - Control
 - 7: Vanes R-L Swing - Control
 - 8: Setpoint Temperature - Control
 - 9: Lower limit Temp. of Cool energy saving - Control
 - 10: Upper limit Temp. of Heat energy saving - Control
 - 11: Lower limit Temp. of Dehumidify energy saving - Control
 - 12: Sleep - Control
 - 13: Quiet - Control
 - 14: Ventilation - Control
 - 15: On/Off - Status
 - 16: Fan Speed - Status
 - 17: Mode - Status
 - 18: Setpoint Temperature - Status
 - 19: Outdoor ambient Temperature - Status
 - 20: Indoor ambient Temperature - Status
 - 21: Error Code - Status
 - 22: Project No. of starting indoor unit of gateway - Status
 - 23: Complete unit Cool and Heat mode - Status
 - 24: Machine operation mode - Status
 - 25: Remote lock - Status
 - 26: Object for disable - Disable
 - 27: Scene recall or save - Scene

Fig. 5.1 Communication Objects

Note:

Serial No. 27: Scene recall or save – Scene is concealed by default. In the Scene of General interface of setting of ETS system parameter in the next section, select Disable to turn off the object 27.

6 ETS System Parameters

6.1 Setting Interface of “General” Parameters

Setting interface of “General” parameters is shown as Fig.6.1, here set the action and ON/OFF of some functions after the air conditioner is energized:

General	Power On Setting	<input checked="" type="radio"/> Preset mode <input type="radio"/> Previous Setting
Scene	ON/OFF	<input checked="" type="radio"/> OFF <input type="radio"/> ON
Status	Temperature [16..30]°C	16
	Mode	Cooling
	Fan Speed	Low fan speed
	Disable Object	Object value=1
	Support 18Bit Up Down Set Mode	<input type="radio"/> NO <input checked="" type="radio"/> YES
	Support 18Bit Up Down Fan Speed	<input type="radio"/> NO <input checked="" type="radio"/> YES
	Lower limit Temp. of Cool energy saving [16..30]°C	24
	Upper limit Temp. of Heat energy saving [16..30]°C	29
	Lower limit Temp. of Dehumidify energy saving[16..30]°C	17
	Scene	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

Fig. 6.1 Setting interface of “General” parameters

Parameter “Power On Setting”:

This parameter is to set the status of air conditioner after being energized. Select Previous Setting means it is under the status before the power failure; select Preset mode means it will resume to the setting status after being energized. Set the ON/OFF status under such parameter, set the temperature (Temperature [16..30]°C), operating mode (Mode), fan speed.

Parameter “Disable Object”:

Setting of this parameter means whether to turn on the function of disable object. When the value is 1, the function is activated, user can send the command to select whether to shield the command via ETS; when the value is 0, the function is not available.

Parameter “Support 1Bit Up Down Set Mode”:

This parameter is to set if the + and – function of mode is available;

Parameter “Support 1Bit Up Down Fan Speed”:

This parameter is to set if the + and – function of fan speed is available;

Parameter “Lower limit Temp. of Cool energy saving[16..30]°C ”:

This parameter is to set the lower limit temperature of energy-saving cooling.

Parameter “Upper limit Temp. of Heat energy saving[16..30]°C ”:

This parameter is to set the upper limit temperature of energy-saving heating.

Parameter “Lower limit Temp. of Dehumidify energy saving[16..30]°C ”

This parameter is to set the lower limit temperature of energy-saving dehumidify.

Parameter “Scene”

This parameter is to set if activate the scene function. After activating this function, the “Scene” parameter setting card will appear, as shown in Fig. 6.2.

6.2 Setting Interface of “Scene” Parameter

Setting interface of “Scene” parameter is shown as Fig.6.2. Here can set the function of each scene. There are a total 4 scenes, the settable options of each scene are the same:

Section	Parameter	Value
General	1> Scene No.[1..64, 0=inactive]	16
	Enable storage scene	<input type="radio"/> NO <input checked="" type="radio"/> YES
	ON/OFF	<input type="radio"/> NO <input checked="" type="radio"/> YES
Scene	Temperature [16..30]°C	16
	Mode	Cooling
	Fan Speed	Medium low fan speed
	2> Scene No.[1..64, 0=inactive]	17
	Enable storage scene	<input type="radio"/> NO <input checked="" type="radio"/> YES
Scene	ON/OFF	<input type="radio"/> NO <input checked="" type="radio"/> YES
	Temperature [16..30]°C	30
	Mode	Heating
	Fan Speed	Medium low fan speed
	3> Scene No.[1..64, 0=inactive]	18
Scene	Enable storage scene	<input type="radio"/> NO <input checked="" type="radio"/> YES
	ON/OFF	<input type="radio"/> NO <input checked="" type="radio"/> YES
	Temperature [16..30]°C	25
	Mode	Dehumidifying

Fig.6.2 Setting interface of “Scene” parameter

Parameter “1> Scene No.[1..64, 0=inactive]”:

This parameter is to set the scene No. of the first scene, the number is within 1~64 (1 and 64 are included), the other three scenes are in the same rule.

Parameter “Enable storage scene”:

This parameter is to set if the saving function of the first scene is available. After activating such function, it can re-save the scene via ETS software, use the

“activate” function in the ETS software can transfer the scene, and use the “learn” function in the ETS software can save the setting. The value to be saved is the current status of air conditioner, the other three scenes also can adopt such method.

Parameter “ON/OFF”:

This parameter is to set the ON/OFF of the first scene, the other three scenes are in the same rule.

Parameter “Tempearture [16..30]°C ”:

This parameter is to set the setting temperature of the first scene, the other three scenes are in the same rule.

Parameter “Mode”:

This parameter is to set the mode of the first scene, the other three scenes are in the same rule.

Parameter “Fan Speed”:

This parameter is to set the fan speed of the first scene, the other three scenes are in the same rule.

6.3 Setting Interface of “Status” Parameter

Setting interface of “Status” parameter is shown as Fig.6.3. Here can set the ON/OFF, fan speed, mode, set temperature, outdoor temperature, indoor temperature, mode of sending status of error code:

General	Mode of send Status_On/Off	Send after change
Scene	Period of send[5..5000]s	5
Status	Mode of send Status_Fan Speed	Send after change
	Period of send[5..5000]s	5
	Mode of send Status_Mode	Send after change
	Period of send[5..5000]s	5
	Mode of send Status_Setpoint Temperature	Send after change
	Period of send[5..5000]s	5
	Mode of send Status_Outdoor ambient temperature	Send after change
	Period of send[5..5000]s	5
	Mode of send Status_Indoor ambient temperature	Send after change
	Period of send[5..5000]s	5
	Mode of send Status_Error Code	Send after change
	Period of send[5..5000]s	5

Fig.6.3

Functional option “Only Read”:

When certain function select such option, the gateway will not forwardly send the status message to the bus bar, if you want to view the function status, please send the reading command via ETS.

Functional option “Send after change”:

When certain function select such option, if the function status is changed, or after sending the control command, the gateway will send status message to

the bus bar.

Functional option “Cyclic”:

When certain function select such option, the function status message will be sent to bus bar in a period of time, the interval can be set via “Period of send[5..5000]s”, only within 5~5000 can be set.

7 Instruction of KNX Communication Objects

Object#	1
Name	On/Off – Control
Function	Control ON/OFF of air conditioner
Description	Message "1": ON Message "0": OFF
Read/Write	Write
Type of data point	1 bit

Object#	2
Name	Mode – Control
Function	Control operating mode of air conditioner
Description	1: cooling; 2: dehumidifying; 3: air supply; 4: heating; 5: auto; 6: floor heating; 7: 3D heating; 8: space heating
Read/Write	Write
Type of data point	1 byte

Object#	3
Name	Mode+/- – Control
Function	Control the previous/next mode of air conditioner
Description	Message “0”: it switches to the previous mode Message “1”: it switches to the next mode
Read/Write	Write
Type of data point	1 bit

Object#	4
Name	Fan Speed – Control
Function	Control the fan speed of IDU according to specific notches.
Description	1: auto; 2: low; 3: medium and low; 4: medium; 5: medium and high; 6: high; 7: turbo
Read/Write	Write
Type of data point	1 byte

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Object#	5
Name	Fan Speed+/- – Control
Function	Control the fan speed by notch
Description	<p>1. Message “0”: each time writing “0” for once, the fan speed will switch to the previous notch; when the fan speed is turbo, write “0”, the fan speed will return to auto;</p> <p>2. Message “1”: each time writing “1” for once, the fan speed will switch to the next notch; when the fan speed is auto, write “1”, the fan speed will return to turbo.</p>
Read/Write	Write
Type of data point	1 bit

Object#	6
Name	Vanes U-D Swing – Control
Function	Control the ON/OFF of up and down swing of air conditioner
Description	<p>Message “1”: ON</p> <p>Message “0”: OFF</p>
Read/Write	Write
Type of data point	1 bit

Object#	7
Name	Vanes R-L Swing – Control
Function	Control the ON/OFF of left and right swing of air conditioner
Description	Message "1": ON Message "0": OFF
Read/Write	Write
Type of data point	1 bit

Object#	8
Name	Setpoint Temperature – Control
Function	Set the temperature of air conditioner
Description	Transmission value = actual value, actual value: 16.0~30.0
Read/Write	Write
Type of data point	2 byte

Object#	9
Name	Lower limit Temp. of Cool energy saving – Control
Function	Set the lower cooling temperature limit of air conditioner
Description	Transmission value = actual value, actual value: 16.0~30.0;Reserved.
Read/Write	Write
Type of data point	2 byte

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Object#	10
Name	Upper limit Temp. of Heat energy saving – Control
Function	Set the upper heating temperature limit of air conditioner
Description	Transmission value = actual value, actual value: 16.0~30.0;Reserved.
Read/Write	Write
Type of data point	2 byte

Object#	11
Name	Lower limit Temp. of Dehumidify energy saving – Control
Function	Set the lower dehumidifying temperature limit of air conditioner
Description	Transmission value = actual value, actual value: 16.0~30.0;Reserved.
Read/Write	Write
Type of data point	2 byte

Object#	12
Name	Sleep – Control
Function	Set the sleeping function of air conditioner
Description	1: ON, 0: OFF
Read/Write	Write
Type of data point	1 bit

Object#	13
Name	Quiet – Control
Function	Set the quiet function of air conditioner
Description	1: ON, 0: OFF
Read/Write	Write
Type of data point	1 bit

Object#	14
Name	Ventilation – Control
Function	Set the air exchange function of air conditioner
Description	1: ON, 0: OFF
Read/Write	Write
Type of data point	1 bit

Object#	15
Name	On/Off – Status
Function	Feed back the ON/OFF status of the current air conditioner
Description	1: ON, 0: OFF
Read/Write	Read
Type of data point	1 bit

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Object#	16
Name	Fan Speed – Status
Function	Feed back the fan speed status of the current air conditioner
Description	01: fan stops; 02: ultra-low; 03: low; 04: medium and low; 05: medium; 06: medium and high; 07: high; 08: ultra-high
Read/Write	Read
Type of data point	1 byte

Object#	17
Name	Mode – Status
Function	Feed back the operating status of the current air conditioner
Description	01: cooling; 02: dehumidifying; 03: air supply; 04:heating; 05: auto cooling; 06: auto heating; 07: floor heating; 08: 3D heating; 09: space heating
Read/Write	Read
Type of data point	1 byte

Object#	18
Name	Setpoint Temperature – Status
Function	Feed back the set temperature of the current air conditioner
Description	<p>Transmission value = actual value, actual value: 16.0~30.0</p> <p>When it reads 8°C , it means the unit has activated the 8°C heating function;</p> <p>When it reads 12°C , it means the unit has activated the low-temperature dehumidifying function.</p> <p>When 8°C heating or low-temperature dehumidifying are activated, user can turn off the corresponding function via other equipment or switchover mode.</p>
Read/Write	Read
Type of data point	2 byte

Object#	19
Name	Outdoor ambient Temperature – Status
Function	Feed back the outdoor temperature
Description	<p>Transmission value = actual value, actual value: 16.0~30.0</p>
Read/Write	Read
Type of data point	2 byte

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Object#	20
Name	Indoor ambient Temperature – Status
Function	Feed back the indoor temperature
Description	Transmission value = actual value, actual value: 16.0~30.0
Read/Write	Read
Type of data point	2 byte

Object#	21
Name	Error Code – Status
Function	Feed back error of unit
Description	The lower 8 bit and higher 8 bit are two ASCII code respectively, 0 refers to no error code.
Read/Write	Read
Type of data point	2 byte

Object#	22
Name	Project No. of starting indoor unit of gateway – Status
Function	Feed back the engineering number of the current connected IDU
Description	Transmission value = actual value, actual value: 1~255
Read/Write	Read
Type of data point	1 byte

Object#	23
Name	Complete unit Cool and Heat mode – Status
Function	Feed back the cooling and heating mode of unit
Description	Transmission value = actual value, 1: cooling only; 2: heating; 3: cooling and heating; 4: air supply
Read/Write	Read
Type of data point	1 byte

Object#	24
Name	Machine operation mode – Status
Function	Feed back operating mode of air conditioner
Description	Transmission value = actual value, actual value: 02: cooling mode; 05: heating mode
Read/Write	Read
Type of data point	1 byte

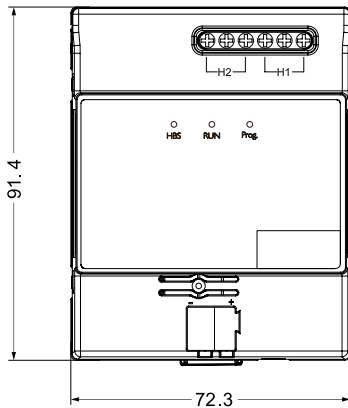
Object#	25
Name	Remote lock – Status
Function	Feed back long-distance locking status of air conditioner
Description	0: OFF, 1: ON
Read/Write	Read
Type of data point	1 bit

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Object#	26
Name	Object for disable – Disable
Function	Control/feed back the ON/OFF of forbidden object
Description	0: OFF, 1: ON
Read/Write	Write/Read
Type of data point	1 bit

Object#	27
Name	Scene recall or save – Scene
Function	Activate/learn the corresponding scene
Description	<p>Send one 8-bit command through this communication object can invoke or save the scene of air conditioner. The following will explain the meaning of 8-bit command in detail.</p> <p>Set one 8bit command as (binary coding): FXNNNNNN F: when it is '0', invoke the scene; when it is '1', save the scene; X:0; NNNNNN: scene number (0...63) Parameter setting option is 1~64, actually, the corresponding scene message received by communication object "Scene" is 0~63. If the parameter set the scene is 1, the scene received by communication object "Scene" is 0.</p>
Read/Write	Write
Type of data point	1 byte

8 Product Specification



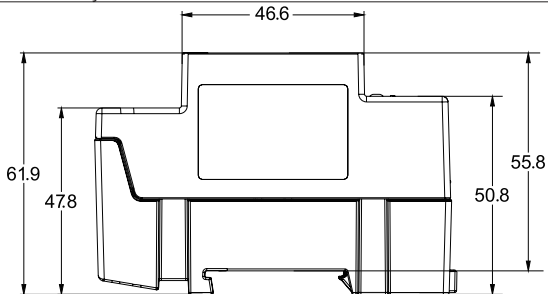


Fig. 8.1 Dimension of Gateway(unit:mm)

9 Error Code

Note: when error occurs in the air conditioner, please turn off the air conditioner and ask professional personnel to maintain.

9.1 Error Code List of ODU

Error Code	Content	Error Code	Content
E0	Malfunction of ODU	J8	High system pressure ratio protection
E1	High-voltage protection	J9	Low system pressure ratio protection
E2	Air discharge low-temperature protection	JA	Pressure error protection
E3	Low-voltage protection	JC	Water flow switch protection
E4	High air discharge temperature protection of compressor	JL	Low pressure protection
F0	Mainboard of ODU is faulted	b2	Defrosting temperature sensor 1 error
F1	High-pressure sensor error	b3	Defrosting temperature sensor 2 error
F3	Low-pressure sensor error	JE	Oil-return tube is blocked
F5	Air discharge temperature sensor error of compressor 1	JF	Oil-return tube is leaking
F6	Air discharge temperature sensor error of compressor 2	b1	Outdoor ambient temperature sensor error

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Error Code	Content	Error Code	Content
F7	Air discharge temperature sensor error of compressor 3	b4	Liquid-out temperature sensor error of subcooler
F8	Air discharge temperature sensor error of compressor 4	b5	Air-out temperature sensor error of subcooler
F9	Air discharge temperature sensor error of compressor 5	b6	Inlet tube temperature sensor error of gas-liquid separator
FL	Current sensor error of compressor 3	b7	Outlet tube temperature sensor error of gas-liquid separator
FE	Current sensor error of compressor 4	b8	Outdoor humidity sensor error
FF	Current sensor error of compressor 5	b9	Air-out temperature sensor error of heat exchanger
FJ	Current sensor error of compressor 6	bA	Oil-return temperature sensor error
FA	Air discharge temperature sensor error of compressor 6	bH	System clock error
FH	Current sensor error of compressor 1	bC	Shell top temperature sensor loose protection of compressor 1
FC	Current sensor error of compressor 2	bL	Shell top temperature sensor loose protection of compressor

Error Code	Content	Error Code	Content
FP	DC motor error	bE	Inlet tube temperature sensor error of condenser
FU	Shell top temperature sensor error of compressor 1	bF	Outlet tube temperature sensor error of condenser
Fb	Shell top temperature sensor error of compressor 2	bJ	Reverse connection of high and low pressure sensor
J1	Compressor 1 overcurrent protection	P0	Compressor driver board error
J2	Compressor 2 overcurrent protection	P1	Compressor driver board working error
J3	Compressor 3 overcurrent protection	P2	Compressor driver board power voltage protection
J4	Compressor 4 overcurrent protection	P3	Compressor driver board reset protection
J5	Compressor 5 overcurrent protection	H0	Fan driver board error
J6	Compressor 6 overcurrent protection	H1	Fan driver board working error
J7	4-way valve leak protection	H2	Fan driver board power voltage protection

9.2 Error Code List of IDU

Error Code	Content	Error Code	Content
L0	IDU error	d3	Ambient temperature sensor error
L1	Indoor fan protection	d4	Inlet tube temperature sensor error
L2	Auxiliary heating protection	d5	Middle tube temperature sensor error
L3	Water-full protection	d6	Outlet tube temperature sensor error
L4	Wired controller power supply error	d7	Humidity sensor error
L5	Anti-frost protection	d8	Water temperature sensor error
L7	No master IDU	d9	Jumper cap error
L8	Insufficient power supply	dA	IDU network address error
L9	Inconsistency of quantity of free match IDU	dH	Wired controller circuit board error
LA	Inconsistency of series of free match IDU	dC	Capacity dial code setting error

Error Code	Content	Error Code	Content
LH	Bad air quality alarm	dL	Air-out temperature sensor error
LC	Unmatched model of IDU and ODU	dE	Indoor CO ₂ sensor error
LP	PG motor zero passage error	db	Special code: engineering debugging code
d1	Indoor electric circuit is faulted	--	--

9.3 Debugging Code List

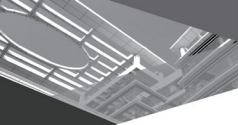
Code	Content	Code	Content
U2	Wrong setting of capacity code/jumper cap of ODU	C3	Communication error between master controller and inverter fan driver
U3	Phase-sequence protection of power source	C4	Error of absence of IDU
U4	Refrigerant lacking protection	C5	IDU engineering number confliction alarm
U5	Compressor driver board address error	C6	Alarm for inconsistency of ODU quantity
U6	Valve abnormality alarm	CH	High rated capacity allocation
U8	IDU pipeline error	CL	Low rated capacity allocation
U9	ODU pipeline error	CF	Multiple master control units error
UC	Successful setting of master IDU	CJ	System address dial codes confliction
UE	Invalid refrigerant charging	CP	Multiple master wired controllers error
UL	Compressor emergency operation dial code error	CU	Communication error between IDU and receiving light board

Code	Content	Code	Content
C0	Communication error between IDU and ODU, IDU and wired controller	Cb	Overflow of unit IP address
C2	Communication error between master controller and inverter compressor driver	--	--

9.4 Code List of Status

Code	Content	Code	Content
A0	Unit to be debugged	AU	Long-distance emergency stop
A1	Inquiry of compressor operating parameters	Ab	Emergency stop operation
A2	After-sales refrigerant reclamation operation	Ad	Operation limitation
A3	Defrosting	An	Anti-high temperature control
A4	Oil return	n3	Compulsory defrosting
A5	Online testing	n5	Compulsory IDU engineering number excursion
A8	Vacuum pumping mode	nL	Object low-pressure revision
AH	Heating	nJ	Anti-high temperature for heating
AC	Cooling	nP	Defrosting temperature adjusting value

Code	Content	Code	Content
AF	Air supply	nU	Clear out IDU long-distance shielding command
AJ	Filter washing remind	--	--



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