



BACnet Gateway ME30-24/D4(B)

Owner's Manual

Commercial Air Conditioners



- Thank you for choosing Commercial Air Conditioners, please read this owner's manual carefully before operation and retain it for future reference.



User Notice

Dear customer:

Please read this manual carefully prior to installation and operation and strictly observe all installation and operation instructions covered in the manual.

Special attentions shall be paid to the following marks:

 WARNING!	This mark indicates operation, which if improperly performed, might lead to the death or serious injury of the users.
 CAUTION!	This mark indicates operation, which if improperly performed, might possibly result in damage to the device.

 WARNING!	
(1)Installation shall be performed by the qualified personnel; otherwise it would result in a fire hazard or electric shock.	
(2)Do not place the plug of the power supply into the socket before it is dried and cleaned.	
(3)Cut off the power supply before touching the electric element.	
(4)Do not touch this device with wet hands; otherwise it would result in electric shock.	
(5)Do use the power cable specified in this manual; otherwise it would result in a fire hazard.	
(6)When the power cable is reversely connected or the power supply is beyond the rated range, it would result in a fire hazard or even damages to this device.	
(7)Do install this device inside the electric control cabinet which is located indoor and then is locked.	
(8)Do install this device where it will not be subject to the electromagnetic interference or heavy dust.	
 CAUTION!	
(1)Be sure the specified adaptor is used; otherwise this device would work improperly or even be damaged.	
(2)Be sure this device is setup in place; otherwise it would result in communication fault.	
(3)Be sure the communication line is connected to the correct interface; otherwise it would result in communication fault.	

(4)After connection, lines should be protected with insulating tape to avoid oxidation and short circuits.

(5)Normal working conditions for BACnet gateway:

- ① Temperature : 0 ~ 55℃;
- ② Humidity: less than 95%
- ③ Location: indoor (it is highly recommended to install this product in the electric control cabinet), not subject to direct sunlight, rain and snow etc.

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

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1 Function and parameter

1.1 Functional overview

AlpicAir BACnet gateway kit ME30-24/D4(B) is intended to realize the data exchange between the air conditioning unit and BAS system, and providing standard BACnet/IP building interface and 10 I/Os (five inputs are DI1, DI2, DI3, DI4, DI5 and five outputs are DO1, DO2, DO3, DO4, DO5). DI1 is the fire alarm interface. The status of other I/Os are mapped to the specific objects of the BACnet/IP bus and are defined by the user. Applicable AlpicAir air conditioner models for this gateway are VRF units.



1.2 Parameter specifications

1.2.1 BACnet gateway TCP/IP parameter (default)

IP Address: 192.168.1.150;

Subnet Mask: 255.255.255.0;

Default gateway: 192.168.1.1。

CAUTION!

please reenergize the gateway to make the modified TCP/IP data effective.

1.2.2 BACnet gateway building interface parameter

Parameters of all kinds of supportive air conditioners shall refer to Attachment A: Parameter of Air Conditioner.

2 Parts and assembly

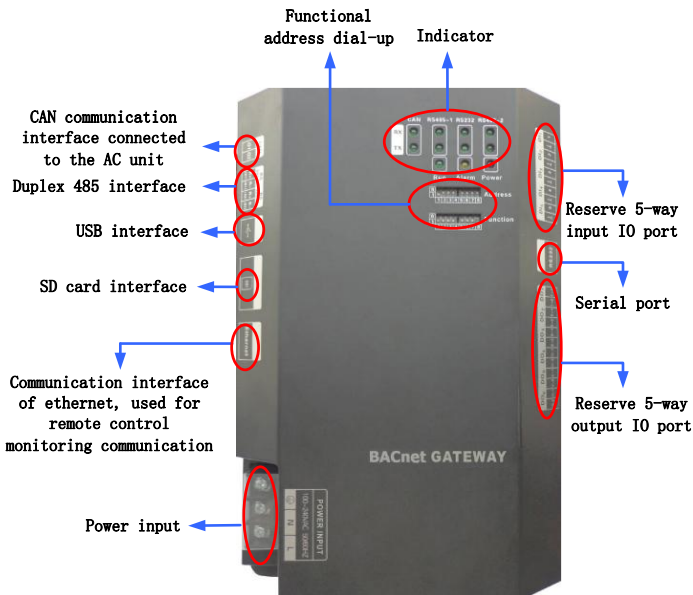
This kit includes the following parts. Please check before installation.

BACnet gateway	1 set
Instruction manual	1 set

3 Introduction for BACnet gateway

3.1 Interface

3.1.1 Diagram of interface function



3.1.2 Power

The input power is 100VAC-240VAC and 50/60Hz.

⚠ WARNING!

The ground protection of power input port must be connected, otherwise it might be dangerous; besides, when the gateway is energized, don't touch the power input.



! Note!

The power cord shall be fixed with bonding clamp in the kit, as shown in the fig.

3.1.3 Communication interface



CAN communication interface: connect it to the AC unit through the 2-core communication line to realize the communication between BACnet gateway and the AC which adopts CAN protocol.

RS485-1 communication interface: this device will not use this communication interface temporarily.

RS485-2 communication interface: this device will not use this communication interface temporarily.

USB and SD card interface: this device will not use this interface temporarily.

Ethernet interface: realize communication through network cable and remote control monitor software

3.1.4 Input/output of DI/DO digital quantity



So far, this gateway supports 5 DIs (digital input) and 5 Dos (digital output), DO6 is reserved.

DI1...DI5

Digital input 0/1digital signal (binary system), apply to passive input.

DI 1: fire alarm signal, shortly connect to K1, input fire alarm signal "1" in DI 1

port, then BACnet gateway will give out control, all units stop operation immediately; cut off K1, input signal “0” in DI1port, resume operation of all units.

DI 2...DI 5: Defined by the user.

Usage example: Close K5, read the value in DI5 of BACnet protocol, which is “1”;

Cut off K5, read the value in DI5 of BACnet protocol, which is “0”.

DO1...DO5

Digital output Relay output, turn on the contactor oftentimesMaximum admissible electric quantity: 250VAC, 3A; 30VDC, 3A

Usage example: Input “1” in DO 5 of BACnet protocol, the two contactors of DO5 relay will close; input “0” in DO 5 of BACnet, the two contactors of DO 5 will cut off.

3.2 LED display



The above LED indicator is mainly consist of two parts: status indicator (run, alarm, power) and communication indicator (CAN, RS485, RS2332). The following table is the working status of each indicator.

CAN	RX	When receiving the data of equipment (eg. AC unit) which connects to BACnet gateway, it blinks.
CAN	TX	When transmitting data to the equipment (eg. AC unit) which connects to BACnet gateway, it blinks.
RS485-1	RX	This device does not use this LED indicator.
RS485-1	TX	This device does not use this LED indicator.
RS232	RX	This device does not use this LED indicator.
RS232	TX	This device does not use this LED indicator.
RS485-2	RX	This device does not use this LED indicator.
RS485-2	TX	This device does not use this LED indicator.
Power		When power supply of BACnet gateway is normal, it is on.
Run		When BACnet gateway is running normally, it blinks.
Alarm		This device does not use this LED indicator.

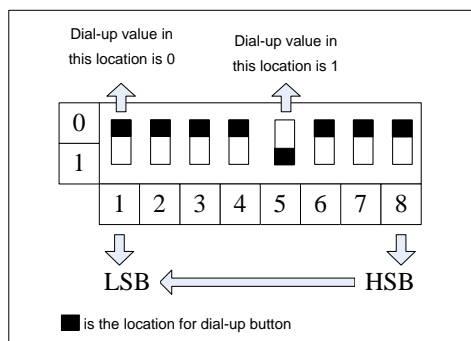
3.3 Dial-up

! Notice!

- ① Before using this device, please conduct dial-up setting first, otherwise the unit will not function normally!
- ② Gateway dial-up setting area is consisting of address dial-up machine and function dial-up machine.



3.3.1 Diagram of dial-up machine



3.3.2 No.8 of functional dial-up machine--matched resistance setting of CAN bus

! Notice!

Main control ODU or gateway at the top/end of CAN bus must be with matched resistance; otherwise the communication might be wrong!

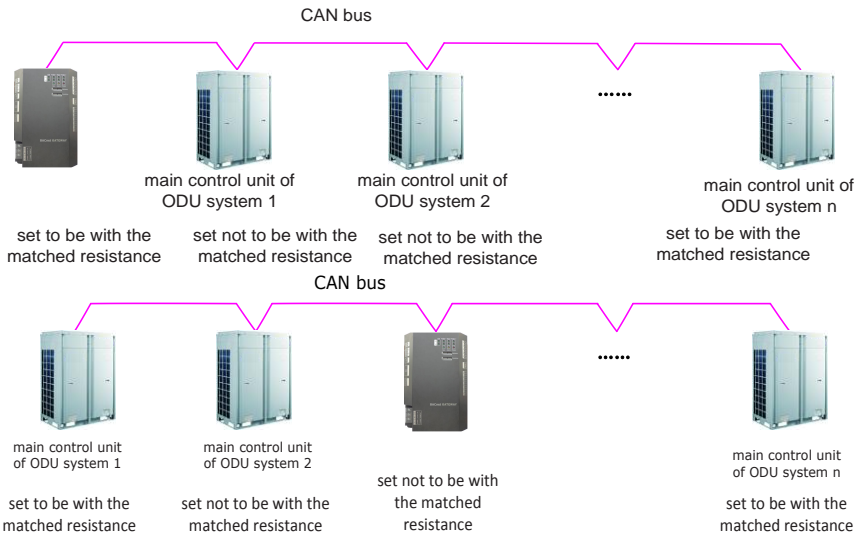
※ CAN bus: specific meaning shall refer to the specification in Fig 4.2 Internet topological graph.

The No.8 dial-up button in function dial-up machine shall be used in the setting in the matched resistance of CAN bus in this gateway.

When the gateway is at the top/end of CAN bus, the gateway shall be with the

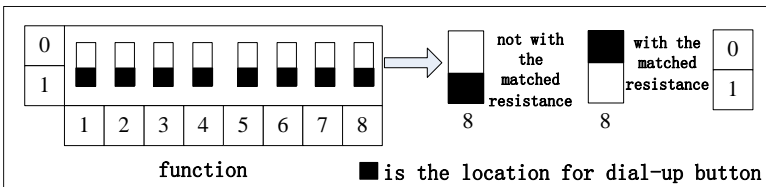
matched resistance, then dial the No.8 function dial-up machine to 0;

When the gateway is not at the top/end of CAN bus, the gateway is not with the matched resistance, then dial it to 1.



n stands for the quantity of ODU system, $n \leq 16$.

Dial-up setting graph for the matched resistance:



4 Application

Generally, the application occasion for BACnet gateway is building management system.

4.1 (BMS) Building Management System (BMS)

This gateway adopts BACnet standard protocol. It can connect to BAS system and supports the user Building Management System (BMS, Building Management System) connected with AlpicAir VRF units. It realizes the monitor of building management system to AlpicAir central air conditioners through BACnet gateway.

4.2 Internet topological graph

Internet topological graph statement :

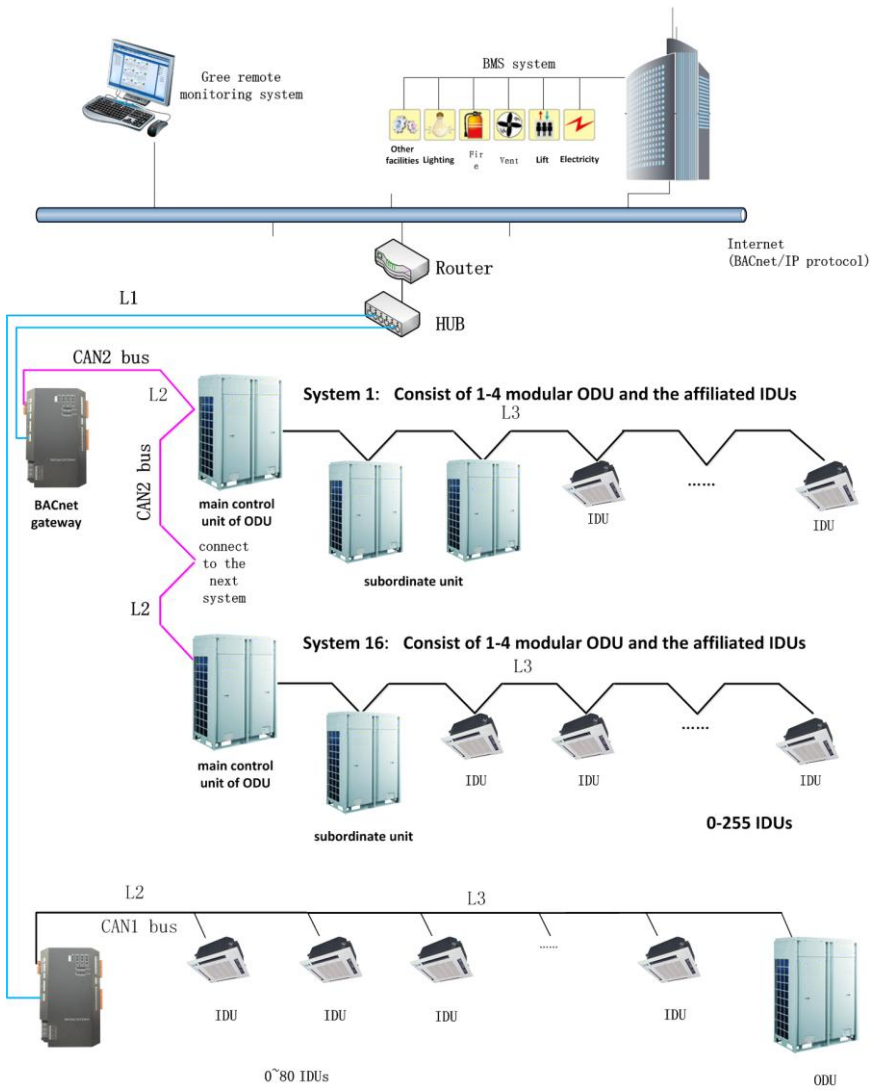
CAN2 bus internet: the red wire is CAN2 bus, which is consist of BACnet gateway and main control ODU of the system. One CAN2 internet can be connected to maximum 16 systems and 255 IDUs.

CAN1 bus internet: the orange wire is CAN1 bus, which is consist of BACnet gateway and all IDUs and ODUs of the system. One CAN1 internet can be connected to maximum 80 IDUs.

System: one system is consisting of a set of ODU (a set of ODU is a module which is consist of 1-4 modules, namely 1-4 ODUs) and the affiliated IDUs.

The admissible unit quantity for BACnet gateway: one BACnet gateway can be connected to maximum 16 systems and 255 IDUs.

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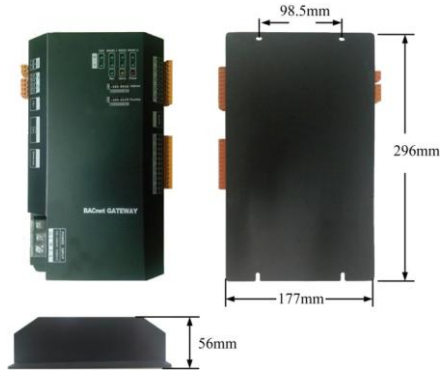


Note: L1 is the standard network cable, L2 and L3 is the twisted pair line.

5 Product installation

5.1 Product size and spatial size for electric control cabinet installation

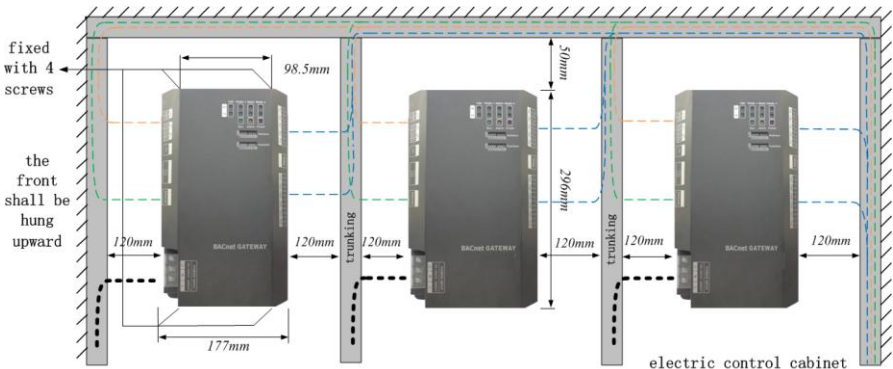
5.1.1 Product size



L x W x H: 296x177x56 (mm)

5.1.2 Spatial size for electric control cabinet installation

BACnet gateway shall be installed in electric control cabinet; the front of gateway shall be hung upward and fixed with 4 screws. See the following fig (for reference).



⚠ Warning!

- ① Power cord and communication line of BACnet gateway must conduct routing separately; otherwise, it might lead to BACnet gateway malfunction!
- ② The thin dotted line is communication line and the thick dotted line is the

heavy current wire, the routing shown is for reference only.

5.2 Communication connection

BACnet gateway communication system includes:

- (1) The communication between BACnet gateway and AlpicAir remote control monitor system or BMS;
- (2) The communication between BACnet gateway and AC units.

5.2.1 Material selection for communication line

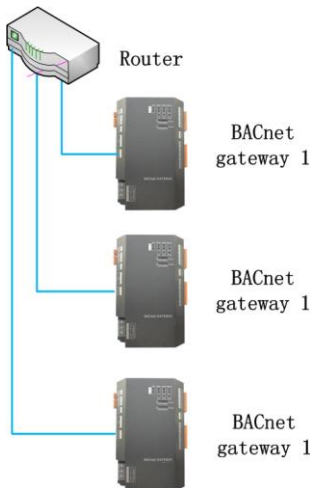
(1) Model selection of BACnet gateway and remote control monitor communication line shall use standard Ethernet communication line, the length of network cable between gateway and router (computer, switchboard, etc.) shall not exceed 80m;

(2) Communication line model selection for BACnet gateway and AC unit.

Wire type	L(m)Communication line between gateway and AC units	Wire diameter(m m ²)	Wire standard	Remark
Light-weight/normal PVC jacket twisted copper wire(RVV)	$L \leq 500$	$\geq 2 \times 0.75$	GB/T 5023.5-2008	Total communication length shall not exceed 500m

5.2.2 Communication connection method

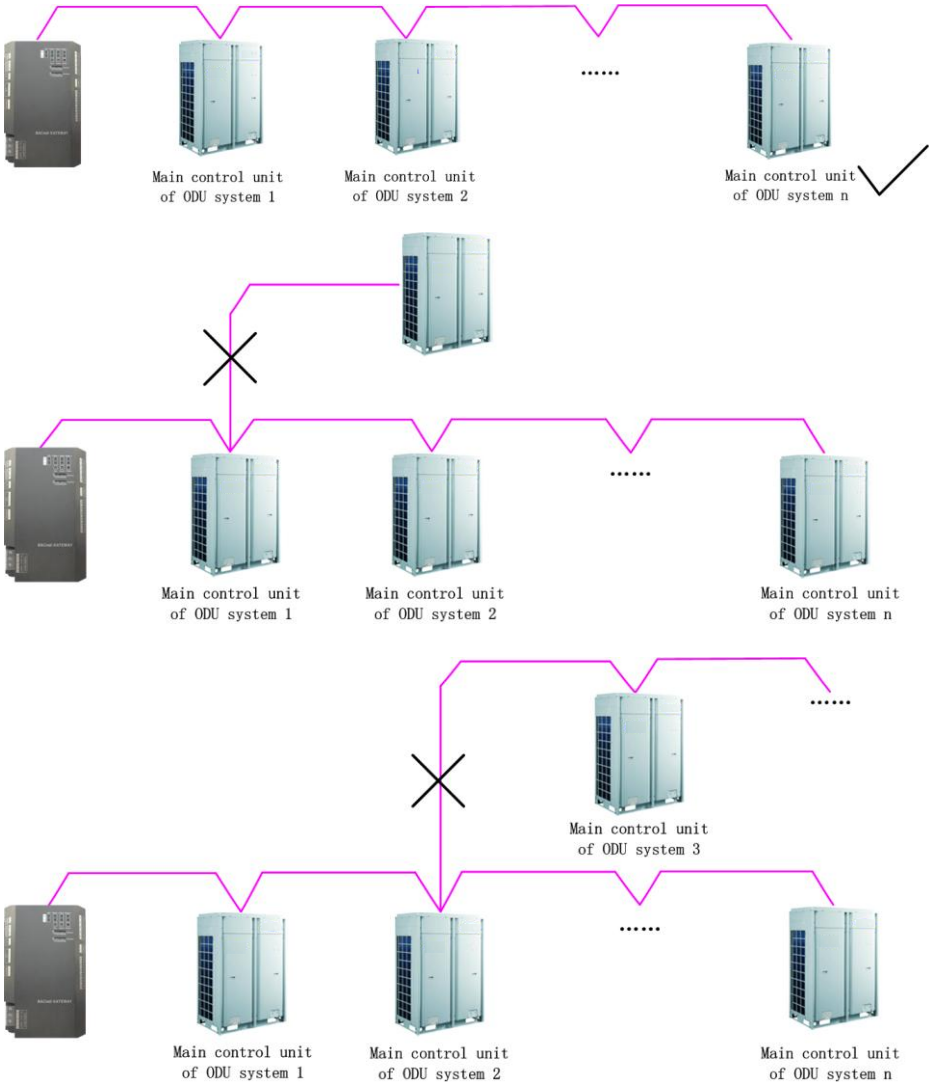
(1) Communication connection between BACnet gateway and AlpicAir remote control monitor system or BMS;



(2) Communication connection between BACnet gateway and AC units (n is the quantity of ODU system, $n \leq 16$);

Notice!

All communication connection lines under BACnet gateway must be in series connection, star connection shall not be adopted.

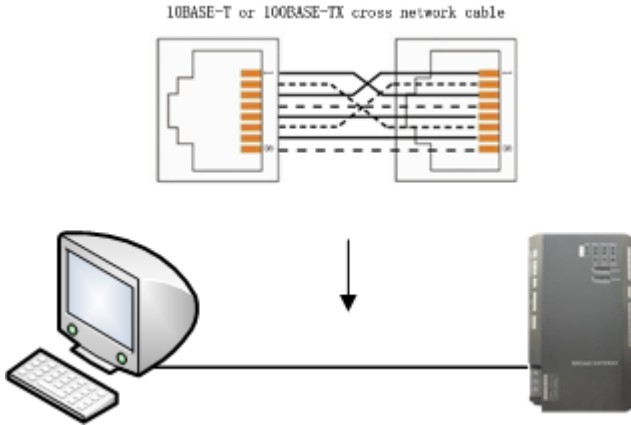


5.2.3 Communication connection configuration

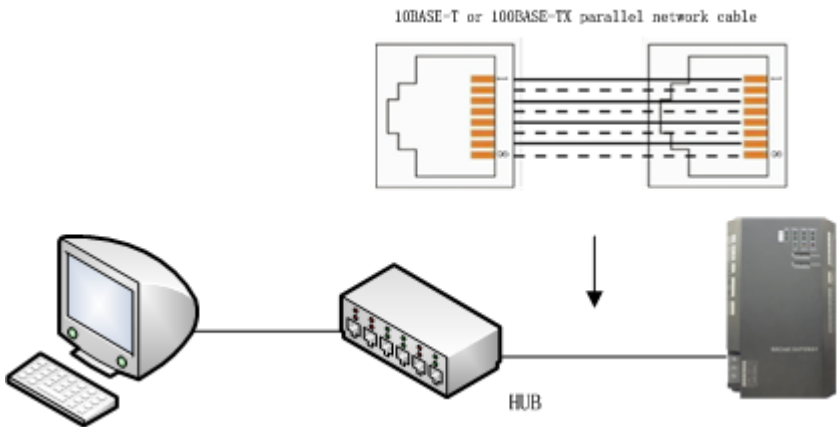
(1) Communication line connection between BACnet gateway and PC:

Connection diagram between BACnet gateway and PC user side:

- 1) Adopt cross connection network cable, BACnet gateway shall directly connect to PC.

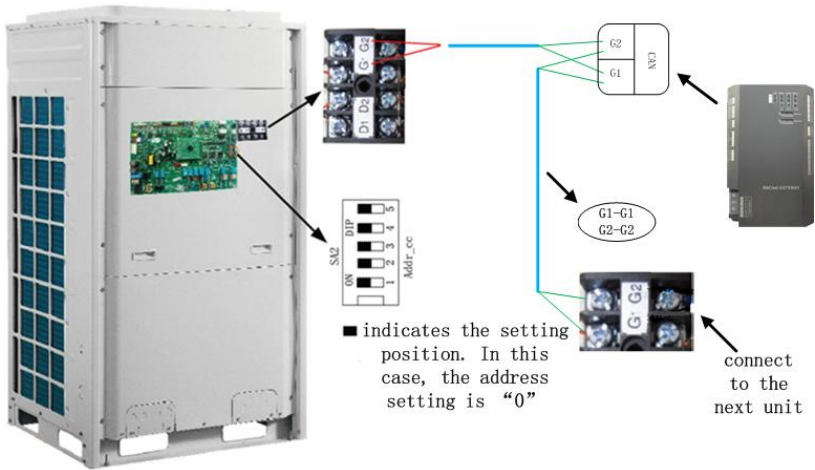


- 2) Adopt parallel network cable, BACnet gateway shall go through HUB to connect to PC.



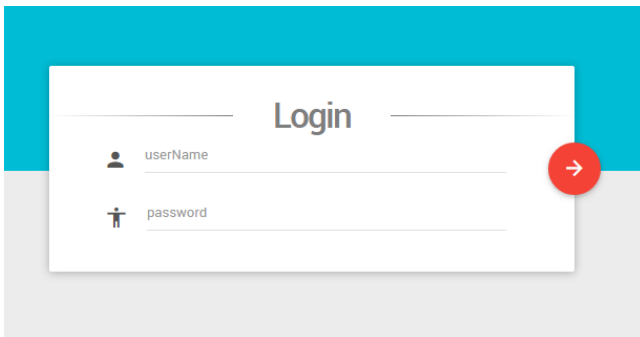
(2) Communication line connection between BACnet gateway and AC units:

When gateway is connected to main control unit of ODU, ODU with the address dial-up of 0 must be connected.



(3) BACnet gateway configuration:

One BACnet gateway connects 16 systems and 255 IDUs at the same time. The gateway parameter shall be configured after its installation, however, before this please set the IP address of the PC the same with that of the BACnet gateway, see Attachment A; then open IE browser, input the default IP address into the address field: <http://192.168.1.150>, the default user name and password are both “Config”; refer to the following fig.



After input, press the button to go to the setting page.

The configurable parameters include gateway CAN IP, BACnet gateway IP address, BACnet gateway subnet mask code, BACnet default gateway, BACnet gateway name, BACnet gateway ID. The user can conduct configuration at his will, after that, click “confirm” button for confirmation.

6 BACnet protocol

6.1 Structure of BACnet protocol

The structure of BACnet standard protocol is specific to building self-control system characteristics, a simplified 4-layer structure from OSI 7-layer structure; this 4-layer is corresponding to the application layer, network layer, data link and physical layer in OSI model. BACnet standard protocol defines its application layer and network layer, and provides the following 5 solutions to its data link and physical layers.

BACnet Layers					Equivalent OSI Layers
BACnet Application Layer					Application
BACnet Network Layer					Network
ISO8802-2 (IEEE802.2) Type1		MS/TP	PTP	LonTalk	Data Link
ISO8802-3 (IEEE802.3)	ARCNET	EIA-485 (RS485)	EIA-232 (RS232)		Physical

6.2 Object and property of BACnet protocol

6.2.1 Definition of BACnet object

BACnet defines a group of objects with property to represent any functions of building self-control equipment, thus provide a standard method to represent building self-control equipment. The BACnet gateway defines 9 objects, the enumeration number, name and application sample of these objects are introduced as follows.

No.	Object name	Application sample
0	Analog Input	Sensor input
1	Analog Output	Control output
2	Analog Value	The set valve value or other analog control system parameter
3	Binary Input	Switch input
4	Binary Output	Relay output
5	Binary Value	Digital control system parameter
13	Multi-state Input	Indicate a multi-state processing program situation, such as open/close refrigerator and defrosting cycle etc.
14	Multi-state Output	Indicate a multi-state processing program expectation status, e.g. started cooling time for refrigerator.
19	Multi-state Value	Indicate a multi-state processing program parameter, such as AC fan speed setting and mode setting, etc.

Each object has a set of property, the property value describes the features and functions of the objects.

6.2.2 Table of BACnet protocol point

One BACnet object ID is consist of the following 5 parts:

BACnet object ID (32bits)				
10 bits	3 bits	2 bits	9 bits	8 bits
Object type(T)	Model series (assigned to be 0)(M)	Equipment type(01,02,03)(D)	Equipment migration(N)	Parameter No.(P)

Object type: it indicates the BACnet object type, like AI, BO, etc, among which, T means the enumeration number of AI and BO.

Equipment type: include the gateway itself (0), IDU(1), ODU(2) and IO module(3).

Equipment migration: for IDU object, it means the IDU No.;

Parameter number: the sequence of parameter number after data conversion;

ID value of BACnet object: BACnet ID =

$P+N*256+D*256*512+M*256*512*4+T*256*512*32$;

For example indoor ambient temperature of object

(IndoorUnitAmbientTemp_01_01_01) , its BACnet object ID is

(IndoorUnitAmbientTemp_01_01_01) with the following meaning:

BACnet object ID(32bits)				
10 bits	3 bits	2 bits	9 bits	8 bits
Object type(T)	Model series (assigned to be 0)(M)	Equipment type(01,02,03)(D)	Equipment migration(N)	Parameter No.(P)
0: AI	0: Multi VRF	1:IDU	1	1

If the value of initial IDU engineering code object

(FirstIndoorUnitNum_01_00_00 with object ID of 1) of this BACnet gateway is M, then IndoorUnitAmbientTemp_01_01_01 (131329) represents a IDU parameter with the engineering code of (M+1).

Attachment A Parameter of air conditioner

Equipment	Parameter name	Object type	Instance No.
IDU	Indoor ambient temperature	AI	N*256+131072
	Temperature setting	AV	N*256+131072
	Lower limit temperature setting for cooling energy saving	AV	N*256+131074
	Lower limit temperature setting for heating energy saving	AV	N*256+131076
	Lower limit temperature setting for dehumidifying energy saving	AV	N*256+131078
	Main mode of IDU/subordinate mode of IDU	BI	N*256+131089
	Auxiliary electrical heating of IDU	BI	N*256+131090
	IDU general error	BI	N*256+131072
	Communication error between gateway and IDU	BI	N*256+131091
	IDU protection	BI	N*256+131073
	Indoor fan protection	BI	N*256+131074
	Full water protection	BI	N*256+131075
	Power supply overload protection	BI	N*256+131076
	Anti freezing protection	BI	N*256+131077
	Mode conflict	BI	N*256+131078
	Malfunction of indoor circuit board	BI	N*256+131079
	IDU temperature sensor malfunction	BI	N*256+131080
	Ambient temperature sensor malfunction	BI	N*256+131081
	Inlet temperature sensor malfunction	BI	N*256+131082
	Outlet temperature sensor malfunction	BI	N*256+131083
	Humidity sensor malfunction	BI	N*256+131084
	Communication malfunction	BI	N*256+131085
	Engineering number conflict of IDU	BI	N*256+131086
	Missing main IDU	BI	N*256+131087
	One controller for multiple units, and the number of IDU is inconsistent (HBS network)	BI	N*256+131088
	Other malfunctions	BI	N*256+131092
	With IDU or not	BI	N*256+131093
	Long distance shield energy saving function	BV	N*256+131074
	Long distance shield temperature setting function	BV	N*256+131075
	Long distance shield mode function	BV	N*256+131076
Long distance shield on/off function	BV	N*256+131077	
Long distance lock function	BV	N*256+131078	

	Give priority to IDU when supplying power	BV	N*256+131080
	Energy saving setting	BV	N*256+131073
	Forbid opening auxiliary heating	BV	N*256+131088
	IDU memory	BV	N*256+131079
	Cancel filter cleaning remind	BV	N*256+131089
	Dry	BV	N*256+131082
	Ventilation	BV	N*256+131083
	Dehumidifying under low temperature	BV	N*256+131087
	Shield ON	BV	N*256+131084
	Shield OFF	BV	N*256+131085
	Shield timer	BV	N*256+131086
	8℃ heating function setting	BV	N*256+131081
	ON/OFF	BV	N*256+131072
	All IDUs open	BO	N*256+131090
	All IDUs closed	BO	N*256+131091
	Gate control status	MI	N*256+131074
	The subordinated ODU No. of IDU	MI	N*256+131075
	Rated capacity of IDU (8 buttons lower)	MI	N*256+131072
	Rated capacity of IDU(8 buttons higher)	MI	N*256+131073
	Sleep	MV	N*256+131072
	Operation mode setting	MV	N*256+131073
	Fan speed setting	MV	N*256+131074
	Vertical swing	MV	N*256+131075
	Horizontal swing	MV	N*256+131076
	Quiet	MV	N*256+131077
ODU	Outdoor ambient temperature	AI	N*256+262144
	Start electricity VIP mode	BI	N*256+262178
	Unit debugging status	BI	N*256+262177
	Compressor operation status	BI	N*256+262176
	General malfunction of ODU	BI	N*256+262179
	Communication malfunction between gateway and ODU	BI	N*256+262180
	Back flow protection for 4-way valve	BI	N*256+262144
	Pressure ratio is abnormal	BI	N*256+262145
	High pressure protection	BI	N*256+262146
	Low pressure protection	BI	N*256+262147
	High discharge temperature protection	BI	N*256+262148

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	Overload protection	BI	N*256+262149
	Communication malfunction	BI	N*256+262150
	Outdoor ambient temperature sensor malfunction	BI	N*256+262151
	Discharge sensor fall-off malfunction	BI	N*256+262152
	High pressure sensor malfunction	BI	N*256+262153
	Low pressure sensor malfunction	BI	N*256+262154
	Discharge sensor malfunction	BI	N*256+262155
	Capacity match abnormal	BI	N*256+262156
	Defrosting sensor malfunction	BI	N*256+262157
	Subcooler sensor malfunction	BI	N*256+262158
	Vapour separator sensor malfunction	BI	N*256+262159
	Fan drive board malfunction	BI	N*256+262160
	Compressor drive board malfunction	BI	N*256+262161
	Compressor drive board working abnormal	BI	N*256+262162
	Voltage protection for compressor drive board power	BI	N*256+262163
	Fan drive board working abnormal	BI	N*256+262164
	Voltage protection for fan drive board power	BI	N*256+262165
	Module 1 malfunction	BI	N*256+262166
	Module 2 malfunction	BI	N*256+262167
	Module 3 malfunction	BI	N*256+262168
	Module 4 malfunction	BI	N*256+262169
	High pressure over low protection	BI	N*256+262171
	Discharge temperature over low protection	BI	N*256+262174
	Pressure sensor malfunction	BI	N*256+262175
	Other malfunctions	BI	N*256+262181
	With ODU or not	BI	N*256+262182
	ODU remote control emergency stop	BI	N*256+262170
	Recoverable malfunction in ODU system	BI	N*256+262173
	Unrecoverable malfunction in ODU system	BI	N*256+262172
	Remote energy saving mark	BV	N*256+262144
	Cooling/heating mode of the whole unit	MI	N*256+262144
	Emergency operation mode	MI	N*256+262145
	Upper limit setting of ODU capacity	MV	N*256+262144
Photovoltaic(PV)	Module 1 effective value of power grid side phase voltage	AI	N*256+262145
	Module 1 PV DC bus voltage	AI	N*256+262146
	Module 1 power grid side current	AI	N*256+262148

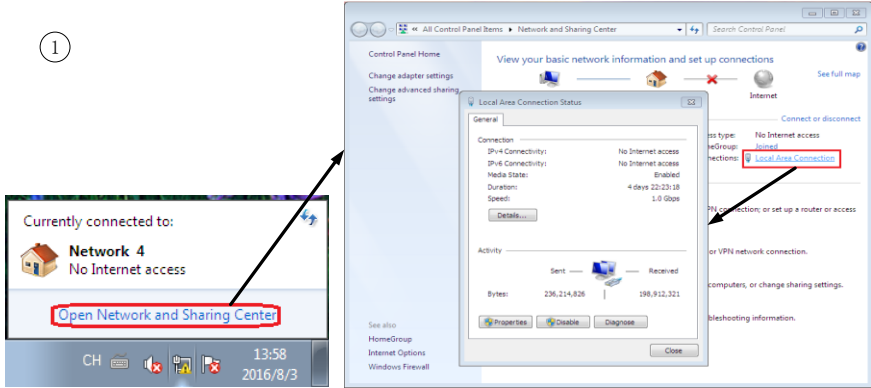
Module 1 power grid side grid connection power	AI	N*256+262150
Module 1 PV power	AI	N*256+262152
Module 1 quantity of side grid connection	AI	N*256+262154
Module 1 quantity of PV power generation	AI	N*256+262156
Module 1 PV side input current	AI	N*256+262158
Module 1 percentage setting for PV side limit power	AV	N*256+262144
Module 1 side grid connection status ON/OFF of power grid	BI	N*256+262183
Module 1 MPPT ON/OFF status	BI	N*256+262184
Module 1 percentage setting for PV side limit power	BI	N*256+262185
Module 1 mark of electric quantity statistics	BI	N*256+262186
Module 2 effective value of power grid side phase voltage	AI	N*256+262145
Module 2 PV DC bus voltage	AI	N*256+262146
Module 2 power grid side current	AI	N*256+262148
Module 2 power grid side grid connection power	AI	N*256+262150
Module 2 PV power generation power	AI	N*256+262152
Module 2 quantity of side grid connection	AI	N*256+262154
Module 2 PV power generation	AI	N*256+262156
Module 2 PV side input current	AI	N*256+262158
Module 2 percentage setting of PV side limit power	AV	N*256+262144
Module 2 side grid connection status ON/OFF of power grid	BI	N*256+262183
Module 2 MPPT ON/OFF status	BI	N*256+262184
Module 2 percentage setting of PV side limit power	BI	N*256+262185
Module 2 mark of electric quantity statistics	BI	N*256+262186
Module 3 effective value of power grid side phase voltage	AI	N*256+262145
Module 3 PV DC bus voltage	AI	N*256+262146
Module 3 power grid side current	AI	N*256+262148
Module 3 power grid side grid connection power	AI	N*256+262150
Module 3 power of PV power generation	AI	N*256+262152
Module 3 quantity of side grid connection	AI	N*256+262154
Module 3 PV power generation	AI	N*256+262156
Module 3 PV side input current	AI	N*256+262158
Module 3 percentage setting of PV side limit power	AV	N*256+262144
Module 3 side grid connection status ON/OFF of power grid	BI	N*256+262183

BACnet Gateway Kit Owner's Manual

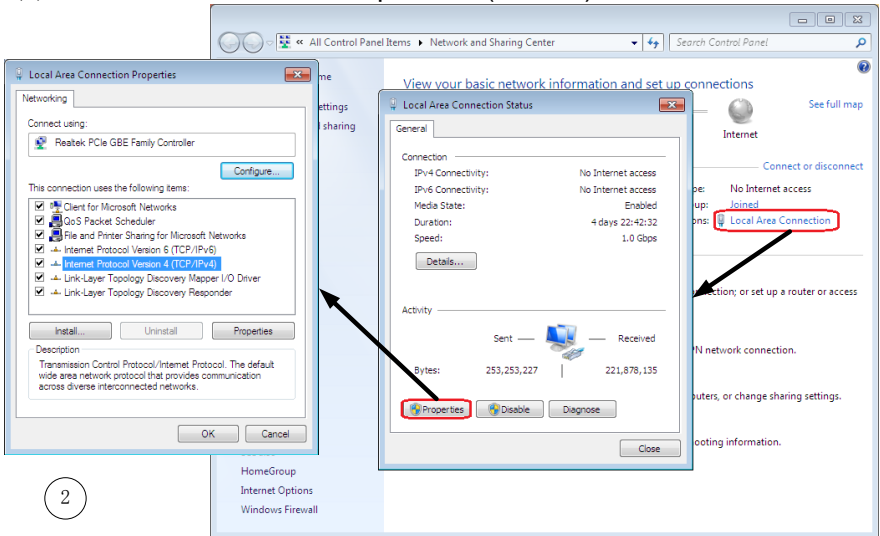
	Module 3 MPPT ON/OFF status	BI	N*256+262184
	Module 3 percentage setting of PV side limit power	BI	N*256+262185
	Module 3 mark of electric quantity statistics	BI	N*256+262186
	Module 4 effective value of power grid side phase voltage	AI	N*256+262145
	Module 4 PV DC bus voltage	AI	N*256+262146
	Module 4 power grid side current	AI	N*256+262148
	Module 4 power grid side grid connection power	AI	N*256+262150
	Module 4 power of PV power generation	AI	N*256+262152
	Module 4 quantity of side grid connection	AI	N*256+262154
	Module 4 PV power generation	AI	N*256+262156
	Module 4 PV side input current	AI	N*256+262158
	Module 4 percentage setting of PV side limit power	AV	N*256+262144
	Module 4 side grid connection status ON/OFF of power grid	BI	N*256+262183
	Module 4 MPPT ON/OFF status	BI	N*256+262184
	Module 4 percentage setting of PV side limit power	BI	N*256+262185
	Module 4 mark of electric quantity statistics	BI	N*256+262186
IO	DI point 1 (fire signal)	BI	N*256+393216
	DI point 2	BI	N*256+393217
	DI point 3	BI	N*256+393218
	DI point 4	BI	N*256+393219
	DI point 5	BI	N*256+393220
	D0 point 1	BV	N*256+393216
	D0 point 2	BV	N*256+393217
	D0 point 3	BV	N*256+393218
	D0 point 4	BV	N*256+393219
	D0 point 5	BV	N*256+393220

Attachment B TCP/IP setting

(1) Conduct property configuration of local connection.



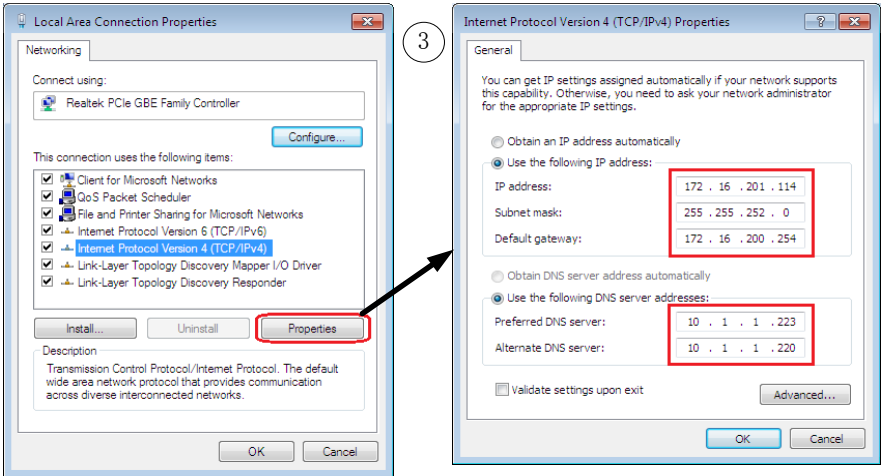
(2) Choose the item: Internet protocol (TCP/IP).



(3) Conduct TCP/IP property setting as shown in the fig.

(4) No additional configuration for DNS server, computer default setting can be retained

(5) Click “Yes” to complete the configuration.





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