



MDV07U-029BW

OWNER'S MANUAL
MD-CCM08

202055100107

Thank you very much for purchasing our air conditioner, please read this owner's manual carefully before using your air conditioner.

4 Object tabel

10) Protect states

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate-input 4	R
Object Name	CharacterString	AC_IProtect	R
Object Type	BACnetObjectType	Multistate-input	R
Discription	CharacterString	Protect State	O
Current value	Unsigned	0	R
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
States number	Unsigned	17	R
States text CharacterString	BACnet ARRAY[N]	PF PE P3 PD P2 PC P1 PB P0 PA No P P9 P8 P7 P6 P5 P4	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Event enable	BACnetEventTransitionBits	T T T	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current PROTECTION STATUS (it's read only). In case of the CURRENT VALUE shows as No P, that means the system without protection, while other information displaying means the other relevant protection. For detail, please refer to TROUBLESHOOT & MAINTENANCE BROCHURE, or contact with After-sales agent. Provided that more than one protection occurs simultaneously, only the minimal No. of the protection would be showed. Thereinto, the CURRENT VALUE displays as 1 means P0; the CURRENT VALUE displays as 2 means P1, analogously, the CURRENT VALUE displays as 3 means P2; the CURRENT VALUE displays as 16 means PF; the CURRENT VALUE displays as 17 means No P.		

CATALOGUE

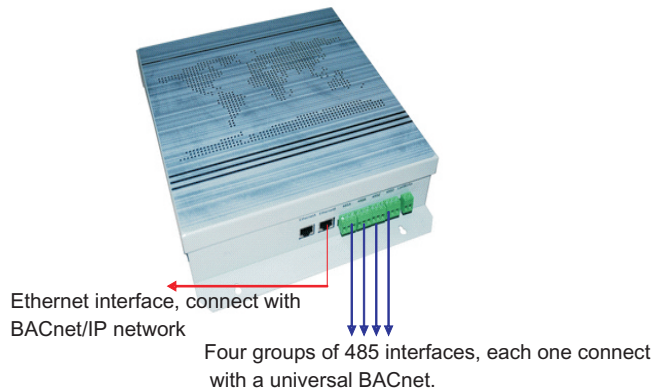
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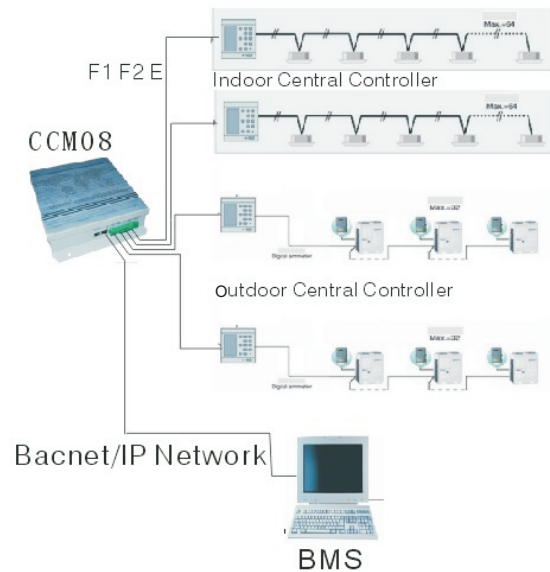
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1 Connecting diagram

1-1 CCMO8 interfaces illustration



1-2 System connecting illustration



CAUTION

- 1) The universal BACnets (include indoor unit CABnet and outdoor unit CABnet) in the same CCMO8 series BACnet whose address code should different.
- 2) BACnet of CCMO8 series must connect with Building Control System at the same IP subnet! Otherwise, the unit could not work normally.

4 Object label

9) Error states

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate-input 3	R
Object Name	CharacterString	AC _IMalfunction	R
Object Type	BACnetObjectType	Multistate-input	R
Discription	CharacterString	Malfunction State	O
Current value	Unsigned	0	R
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
States number	Unsigned	17	R
States text	BACnet ARRAY[N] CharacterString	EF EE ED EC EB EA E9 E3 E8 E2 E7 E1 E6 E0 E5 No E E4	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Event enable	BACnetEventTransitionBits	T T T	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current ERROR status (it's read only). In case of the CURRENT VALUE shows as No E, that means the system without protection, while other information displaying means the other relevant protection. For detail, please refer to TROUBLESHOOT & MAINTENANCE BROCHURE, or contact with After-sales agent. Provided that more the one protection occurs simultaneously, only the minimal No. of the protection would be showed. Thereinto, the CURRENT VALUE displays as 1 means E0; the CURRENT VALUE displays as 2 means E1, analogously, the CURRENT VALUE displays as 3 means E2; the CURRENT VALUE displays as 16 means EF; the CURRENT VALUE displays as 17 means No E.		

4 Object tabel

8) Compressor 3 current

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 5	R
Object Name	CharacterString	AC_ ICom3Current	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Compressor 3 current	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Amperes	R
Minimum	REAL	0	O
Maximum	REAL	200	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Low valve value	REAL	0	O
High valve value	REAL	200	O
Width valve value	REAL	1	O
Enable valve value	BACnetLimitEnable	F T	O
Event enable	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the COMPRESSOR 1 ELECTRIC CURRENT (it's unsettingtable). The MINIMAL VALUE stands for the minimum electric current, while the MAXMUN VALUE stands for the maximum electric current.		

2 Function description

This unit shall be installed between in Building Management System (BMS) and air conditioning, which provide with BACnet[®] interfaces, associating these two systems to realize the systems integration.

BMS is allowed to access any online air conditioning in central air conditioning system for information collection and operation control, after proper installation of central air conditioning and this unit.

2-1 Information collection

This unit is provided a function that collecting information from the central air conditioning by BMS, which operation states' data of indoor units and outdoor units within air conditioning system could be obtained by accessing the specifically BACnet object. Refer to “Object table” for detail object infromation.

2-2 Operation control

The unit provides BMS control central air conditioning, with seven setting functions to control the indoor units in which of the system. Setting functions included “Operation mode setting” , “time-ON setting” , “time-OFF setting” , “Auxiliary swing function setting” and “electric heater setting” . By modify the corresponding BACnet object variables to set the unit' s operation status. Refer to “Object table” for detail object information.

3 Configuration illustration

Setting configuration before using this unit, whether can't provide to preinstall function. User input IP address of this unit into the browser, using WEB access function of this unit set air conditioning.

3-1 Control setting

Control of local network has only one control code in range between 0 and 63. Its name will auto-produce following address or has set by self that convenient for remembrance. After the equipment has set and restart, then modifier will preform in the equipment.

The control code has set randomly before ex-factory, "*" means of control code in "CONTROL-UNIT-*".

3-2 Time and date setting

Control provide real-time clock for saving date and time setting, control also provide corresponding set function through network. After setting to control that will be preform at once and the equipment need't restart.

3-3 Safe setting

Controller was reset function through administrator's keyword provided by network. After setting will effect at once and need't restart.

3-4 Network setting

Eth0 and eth1 are Ethernet interfaces in the control. Eth0 of BACnet/IP can be used at present, eth1 doesn't.

IP address of eth0 has been set "192.168.207.240" before ex-factory, please modified to appropriate network address. Please contact with network manager to know detailed information.



BACnet of CCM08 series must connect with Building Control System at the same IP subnet! Otherwise, the unit could not work normally.

4 Object label

7) Compressor 2 current

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 4	R
Object Name	CharacterString	AC_ ICom2Current	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Compressor 2 current	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Amperes	R
Minimum	REAL	0	O
Maximum	REAL	200	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Low valve value	REAL	0	O
High valve value	REAL	200	O
Width valve value	REAL	1	O
Enable valve value	BACnetLimitEnable	F T	O
Event enable	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the COMPRESSOR 2 ELECTRIC CURRENT (it's unsettingtable). The MINIMAL VALUE stands for the minimum electric current, while the MAXMUN VALUE stands for the maximum electric current.		

4 Object label

6) Compressor 1 current

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 3	R
Object Name	CharacterString	AC_ICom1Current	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Compressor 1 current	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Amperes	R
Minimum	REAL	0	O
Maximum	REAL	200	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Low valve value	REAL	0	O
High valve value	REAL	200	O
Width valve value	REAL	1	O
Enable valve value	BACnetLimitEnable	F T	O
Event enable	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the COMPRESSOR 1 ELECTRIC CURRENT (it's unsettingtable). The MINIMAL VALUE stands for the MINIMUM ELECTRIC CURRENT, while the MAXMUN VALUE stands for the MAXIMUM ELECTRIC CURRENT.		

3 Configuration illustration

3-5 Data collection setting

This equipment provides with **operation data collection function**, select the different contented capability SD card for data saving.

Before send out from factory, unit without SD card attached with it, user should by it by self.

Note: Before insert SD card to the device, the ALARM DIARY would record the information of SD CARD LOAD FAILURE, however, this information record do not affects the device

3-6 BACnet setting

The BACnet network code represents only one of the BACnet Centralized Controller, at the range from 0 to 25. Once set up the address, please restart the device to renew the modified settings to become effective.

BACnet network No. is the BACnet network No. that belong to the BACnet device of the MDV series air conditioner which under connect with the BACnet centralized controller. For different centralized controller must be set in different BACnet network NO., which is the unique number in the system could not be used for represent the other device or BACnet centralized controller.

4 Object tabel

This device provides with different objects tables for the three types of outdoor units which are in using for the MDV system. System will automatically identify the in using outdoor unit and generate the BACnet object.

4-1 Indoor objects

This equipment provides with eleven types of BACnet object, show as the following table, for connecting with indoor unit using in the Building Management System (BMS) or other system which suitable for BACnet Protocol.

Number	Content
1	Device Infomation
2	Operation mode
3	Fan state
4	Preset Temperature
5	Indoor temperature
6	Set on time
7	Set off time
8	Swing function
9	Electric heater function
10	Malfunction state
11	Protection state

4 Object tabel

5) Indoor quantity

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 2	R
Object Name	CharacterString	AC_ ITotalACs	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Indoor unit qty	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units		R
Minimum	REAL	0	O
Maximum	REAL	250	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Low valve value	REAL	0	O
High valve value	REAL	250	O
Width valve value	REAL	1	O
Enable valve value	BACnetLimitEnable	F T	O
Event enable	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current INDOOR UNIT QUANTITY (it's read only).		

4 Object label

4) Outdoor temperature

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-output 1	R
Object Name	CharacterString	AC_ITempOutdoor	R
Object Type	BACnetObjectType	Analog-output	R
Current value	REAL	0	R
Discription	CharacterString	Outdoor Temperature	O
Status Flags	BACnetStatusFlags	F F F	R
Event states	BACnetEventStates	Normal	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Degree-Celsius	R
Minimum	REAL	-20	O
Maximum	REAL	100	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Low valve value	REAL	-20	O
High valve value	REAL	100	O
Width valve value	REAL	1	O
Enable valve value	BACnetLimitEnable	F T	O
Event enable	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	event	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current ROOM TEMPERATURE (it could not be set). The MINIMAL VALUE stands for the minimum temperature, while the MAXMUN VALUE stands for the maximum Temperature.		

4 Object label

Detailed infromation of corresponding objects refer to under-table

1) Device infromation

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Device + Acnumber	R
Object Name	CharacterString	Indoor_*_*	R
Object Type	BACnetObjectType	Device	R
Device Status	BACnetDeviceStatus	Operational	R
Producer Name	CharacterString	AC Inc	R
Producer Identifier	Unisgnd16	111(Unsigned)	R
Model Name	CharacterString	Get one of these from protocolanalysis: Wall Mounted Tpye Floor Tpye Embedded Tpye Duct Tpye Floor&ceiling Tpye AC Auxiliary Machine Tpye Digital Mutil-connection Tpye Frequency Conversion Tpye Digital Rotation Tpye	R
Firmware Edition	CharacterString	1.0	R
Application Software Edition	CharacterString	1.0	R
Protocol Edition	Unsigned	1	R
Protocol Correspondency Type	Unsigned	3	R
Protocol Service Support	BACnetServiceSupport	ReadProperty	R
Protocol Object Types Support	BACnetObjectTypesSupport	AnalogInput	R
Object Array	BACnetArray[n]	Array all object	R
Max length of APDU support	Unsigned	1476	R
Segmentation support	BACnetSegmentation	Segmented both(0)	R
Local Time	Time		R/W
Local Date	Date		R/W
APDU Segmentation Timeover	Unsigned	2000	O
APDU Timeover	Unsigned	3000	R
APDU Resend Times	Unsigned	3	R
Device Address Binding	AddressBinding	ASN.1 []	R
Operation instruction	The OBJECT NAME attribute of this selected object stands for the MODEL INFORMATION which could not be set.		

4 Object tabel

2) Running mode

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate-output 1	R
Object Name	CharacterString	AC_OModeSetting	R
Object Type	BACnetObjectType	Multistate-output	R
Discription	CharacterString	Operation mode setting	O
Current value	Unsigned	0	W
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
States number	Unsigned	6	R
States text	BACnet ARRAY[N] CharacterString	Auto Cool Heat Dehumidify FanOnly Stop	O
Priority Array	BACnetPriorityArra	NULL	R
Release default	Unsigned	0	R
Time delay	Unsigned	2	O
Publicly type	Unsigned	1701	O
Feedback value	Unsigned	6	
Event enable	BACnetEventTransitionBits	T T T	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current OPERATION MODE (it's writeable and settable). Thereinto, the CURRENT VALUE 1 means HEATING MODE; the CURRENT VALUE 2 means COOLING MODE; the CURRENT VALUE 3 means DEHUMIDIFIED MODE; the CURRENT VALUE 4 means AIR SUPPLY; the CURRENT VALUE 5 means AUTO MODE; the CURRENT VALUE 6 means SHUT OFF.		

4 Object tabel

3) Fan states

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate- iutput 2	R
Object Name	CharacterString	AC_IFanSpeed	R
Object Type	BACnetObjectType	Multistate- iutput	R
Current value	Unsigned	0	R
Discription	CharacterString	Fan speed	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
States number	Unsigned	4	R
States text	BACnet ARRAY[N] CharacterString	Low High Middle Stop	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Event enable	BACnetEventTransitionBits	T T T	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current FAN SPEED (It's read only). Thereinto, the CURRENT VALUE 1 means HIGH SPEED; the CURRENT VALUE 2 means MEDIUM SPEED; the CURRENT VALUE 3 means LOW SPEED; the CURRENT VALUE 4 means FAN STOP.		

4 Object label

2) Running mode

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate-input 1	R
Object Name	CharacterString	AC_IOperationMode	R
Object Type	BACnetObjectType	Multistate-output	R
Discription	CharacterString	Operation mode	O
Current value	Unsigned	0	W
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
States number	Unsigned	3	R
States text	BACnet ARRAY[N] CharacterString	Cool Heat Stop	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Event enable	BACnetEventTransitionBits	T T T	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current OPERATION MODE (it's writeable and settable). Thereinto, the CURRENT VALUE 1 means HEATING MODE; the CURRENT VALUE 2 means COOLING MODE; the CURRENT VALUE 3 means DEHUMIDIFIED MODE; the CURRENT VALUE 4 means AIR SUPPLY; the CURRENT VALUE 5 means AUTO MODE; the CURRENT VALUE 6 means SHUT OFF.		

4 Object label

3) Fan states

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate-output 2	R
Object Name	CharacterString	AC_OFanSpeed	R
Object Type	BACnetObjectType	Multistate-output	R
Discription	CharacterString	Fan Speed Setting	O
Current value	Unsigned	0	W
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
States number	Unsigned	6	R
States text	BACnet ARRAY[N] CharacterString	Auto Breeze Low Middle High Stop	O
Priority Array	BACnetPriorityArra	NULL	R
Release default	Unsigned	0	R
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Feedback value	Unsigned	6	
Event enable	BACnetEventTransitionBits	T T T	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current FAN SPEED (It's writable and settable). Thereinto, the CURRENT VALUE 1 means HIGH SPEED; the CURRENT VALUE 2 means MEDIUM SPEED; the CURRENT VALUE 3 means LOW SPEED; the CURRENT VALUE 4 means AUTO SPEED; the CURRENT VALUE 5 means FAN STOP. The thing is, during air conditioner operating, the CURRENT VALUE would be set as to 5 (the order of stop the fan) for ensuring the normal operate, however, this default setting would be omitted by the system automatically.		

4 Object label

4) Preset temperature

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-output 1	R
Object Name	CharacterString	AC_OTempSetting	R
Object Type	BACnetObjectType	Analog-output	R
Discription	REAL		W
Current value	CharacterString	Temperature Setting	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Degree-Celsius	R
Minimum	REAL	16	O
Maximum	REAL	32	O
Distinguishability	REAL	1	O
Priority array Value	BACnetPriorityArra	NULL	R
Default release	REAL	0	R
Distinguishability	REAL	1	O
COV increment	REAL	1	O
Low valve value	REAL	16	O
High valve value	REAL	32	O
Width valve value	REAL	1	O
Enable valve value	BACnetLimitEnable	T T	O
Event enable	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Publicly type	Unsigned	1701	O
Time delay	Unsigned	1	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current SETTING TEMPERATURE (it's writable and settable). The MINIMAL VALUE stands for the min. temperature, while the MAXMUN VALUE stands for the max. temperature. The setting temperature could not exceed than the range.		

4 Object label

1) Device infromation

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Device + Acnumber	R
Object Name	CharacterString	Outdoor_***	R
Object Type	BACnetObjectType	Device	R
System Status	BACnetDeviceStatus	Operational	R
Producer Name	CharacterString	AC Inc	R
Producer Identifier	Unsigned16	111 (Reserve)	R
Model Name	CharacterString	Frequency Conversion AC or Digital rotation AC	R
Firmware Edition	CharacterString	1.0	R
Application Software Edition	CharacterString	1.0	R
Protocol Edition	Unsigned	1	R
Protocol Correspondency Type	Unsigned	3	R
Protocol Service Support	BACnetServiceSupport	ReadProperty etc.	R
Protocol Object Types Support	BACnetObjectTypesSupport	AnalogInput etc.	R
Object Array	BACnetArray[n]	List all objects	R
Max length of APDU support	Unsigned	1476	R
Segmentation support	BACnetSegmentation	Segmented both(0)	R
Local Time	Time		R/W
Local Date	Date		R/W
APDU SEGMENTATION TIMEOVER	Unsigned	2000	O
APDU TIMEOVER	Unsigned	3000	R
APDU RESEND TIMES	Unsigned	3	R
Device Address Binding	AddressBinding	ASN.1 []	R
Operation instruction	The OBJECT NAME attribute of this selected object reflects the MODEL INFORMATION, which is not allowed to set, while the specific MODEL NAME is defined by the relevant protocol.		

4 Object label

4-2 Outdoor Air Conditioner Objects

This equipment provides with ten types of BACnet object, show as the following table, for connecting with Inverter AC or Digital AC using in the Building Management System (BMS) or other system

Number	Content
1	Device Information
2	Operation mode
3	Fan state
4	Outdoor temperature
5	Indoo unit quantity
6	Compressor 1 electric current
7	Compressor 2 electric current
8	Compressor 3 electric current
9	Malfunction state
10	Protection state

4 Object label

5) Room temprature

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 1	R
Object Name	CharacterString	AC_ITemplIndoor	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Indoor temperature	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Reliability	BACnetReliability	NO-FAULT-DETECTED	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Degree-Celsius	R
Minimum	REAL	-20	O
Maximum	REAL	100	O
Distinguishability	REAL	1	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Low valve value	REAL	-20	O
High valve value	REAL	100	O
Width valve value	REAL	1	O
Enable valve value	BACnetLimitEnable	F T	O
Event enable	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	event	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current ROOM TEMPERATURE (its read only, could not be set). The MINIMAL VALUE stands for the min. temperature, while the MAXMUN VALUE stands for the max. Temperature.		

4 Object label

6) Set on time

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-output 2	R
Object Name	CharacterString	AC _ OOnTime	R
Object Type	BACnetObjectType	Analog-output	R
Current value	REAL		W
Discription	CharacterString	On Time Setting	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Hours	R
Minimum	REAL	0	O
Maximum	REAL	24	O
Distinguishability	REAL	0.25	O
Priority Array	BACnetPriorityArra	NULL	R
Default release	REAL	0	R
COV INCREMENT	REAL	0.25	O
Low valve value	REAL	0	O
High valve value	REAL	24	O
Width valve value	REAL	0.5	O
Enable valve value	BACnetLimitEnable	T T	O
Event enable	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Publicly type	Unsigned	1701	O
Time delay	Unsigned	1	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current TIMING ON time (it is read only, could not be set). From 0 to 24 means during the 24 hours without timing has been set.		

4 Object label

11) Protection states

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate-input 2	R
Object Name	CharacterString	AC _ IProtect	R
Object Type	ACnetObjectType	Multistate-input	R
Discription	CharacterString	Protect State	O
Current value	Unsigned	0	R
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
States number	Unsigned	11	R
States text	BACnet ARRAY[N] CharacterString	PF P8 P7 P6 P5 P4 P3 P2 P1 P0 No P	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Event enable	BACnetEventTransitionBits	T T T	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current PROTECTION status (it's read only). In case of the CURRENT VALUE shows as No P, that means the system without protection, while other information displaying means the other relevant protection. For detail, please refer to TROUBLESHOOT & MAINTENANCE BROCHURE, or contact with After-sales agent. Provided that more than one protection occurs simultaneously, only the minimal No. of the protection would be showed. Thereinto, the CURRENT VALUE displays as 1 means P0; the CURRENT VALUE displays as 2 means P1, analogously, the CURRENT VALUE displays as 3 means P2; the CURRENT VALUE displays as 10 means PF; the CURRENT VALUE displays as 11 means No P.		

4 Object label

10) Malfunction states

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate-input 1	R
Object Name	CharacterString	AC_IMalfunction	R
Object Type	BACnetObjectType	Multistate-input	R
discription	CharacterString	Malfunction State	O
current value	Unsigned	0	R
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
States number	Unsigned	17	R
States text	BACnet ARRAY[N] CharacterString	EF EE ED EC EB E3 EA E2 E9 E1 E8 E0 E7 No E E6 E5 E4	O
Time delay	Unsigned	1	O
Publicly type	Unsigned	1701	O
Event enable	BACnetEventTransitionBits	T T T	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current MALFUNCTION (it's read only). In case of the CURRENT VALUE shows as No E, that means without malfunction, while other information displaying means the relevant malfunction. For detail, please refer to TROUBLESHOOT & MAINTENANCE BROCHURE, or contact with After-sales agent. Provided that more the one malfunction occurs simultaneously, only the minimal No. of the error would be showed.		

4 Object label

7) Set off time

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-output 3	R
Object Name	CharacterString	AC_OOffTime	R
Object Type	BACnetObjectType	Analog-output	R
Current value		REAL	W
Discription	CharacterString	Off Time Setting	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Hours	R
Minimum	REAL	0	O
Maximum	REAL	24	O
Distinguishability	REAL	0.25	O
Priority Array	BACnetPriorityArra	NULL	R
Default release	REAL	0	R
COV INCREMENT	REAL	0.25	O
Low valve value	REAL	0	O
High valve value	REAL	24	O
Width valve value	REAL	0.5	O
Enable valve value	BACnetLimitEnable	T T	O
Event enable	BACnetEventTransitionBits	T T T	O
Notify Type	BACnetNotifyType	alarm	O
Publicly type	Unsigned	1701	O
Time delay	Unsigned	1	O
Affirm transform	BACnetEventTransitionBits	T T T	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current TIMING OFF time (it is read only, could not be set). From 0 to 24 means during the 24 hours without timing has been set.		

4 Object label

8) Swing function

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Binary-output 1	R
Object Name	CharacterString	AC_OSwing	R
Object Type	BACnetObjectType	Binary-output	R
Current value	BACnetBinaryPV	inactive	W
Discription	CharacterString	Swing Setting	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Polarity	BACnetPolarity	Normal	R
Inactive text	CharacterString	Turn off	O
Active text	CharacterString	Turn on	O
Time delay	Unsigned	1	O
States change time	BACnetDateTime		O
States change times	Unsigned		O
Change time to	0BACnetDateTime		O
Publicly type	Unsigned	1701	O
Feedback value	BACnetBinaryPV	inactive	O
Event enable	BACnetEventTransitionBits	T T T	R
Affirm transform	BACnetEventTransitionBits	T T T	O
Priority Array	BACnetPriorityArra	NULL	R
Default release	BACnetBinaryPV	inactive	R
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of the selected object reflects the current SWING STATUS. INACTIVE means SWING OFF, while ACTIVE means SWING ON.		

4 Object label

9) Electric heater function

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Binary-output 2	R
Object Name	CharacterString	AC_OElecHeat	R
Object Type	BACnetObjectType	Binary-output	R
Current value	BACnetBinaryPV	Inactive	W
Discription	CharacterString	Elecheat Setting	O
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Polarity	BACnetPolarity	Normal	R
Inactive text	CharacterString	Turn off	O
Active text	CharacterString	Turn on	O
Time delay	Unsigned	1	O
States change time	BACnetDateTime		O
States change times	Unsigned		O
Change time to 0	BACnetDateTime		O
Publicly type	Unsigned	1701	O
Feedback value	BACnetBinaryPV	inactive	O
Event enable	BACnetEventTransitionBits	T T T	R
Affirm transform	BACnetEventTransitionBits	T T T	O
Priority Array	BACnetPriorityArra	NULL	R
Default release	BACnetBinaryPV	inactive	R
Notify Type	BACnetNotifyType	alarm	O
Operation instruction	The CURRENT VALUE attribute of this selected object reflects the current ELECTRIC HEATER working status. INACTIVE means ELECTRIC HEATER OFF, while ACTIVE means ELECTRIC HEATER ON. The thing is, when air conditioner in the COOLING MODE or other mode, the CURRENT VALUE would be set as ELECTRIC HEATER ON for ensuring the normal operate, however, this default setting would be omitted by the system automatically.		