OWNER'S MANUAL

DTBAC IHXR

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

4 Objiect Array

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	BACnet ARRAY[N] CharacterString	PF PE PD PC PB PA P9 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
Handing instruction	Express current value of object as pretection states what choosed. The current value hasn't set. Express current value as 'No P' means of unpretected. Express pretection states as others value, detailed infromation refer to Air Conditioner service after sale. Objects just display the minimal code when appare multiform pretection.		

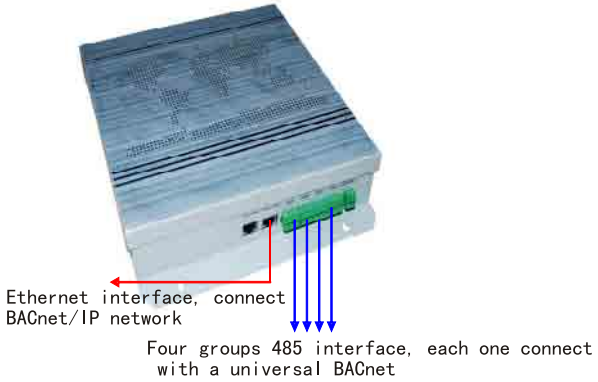
CAUTION

BACnet® which are the registered trademarks have been registered by America ASHARE consortium in United State and other countries.

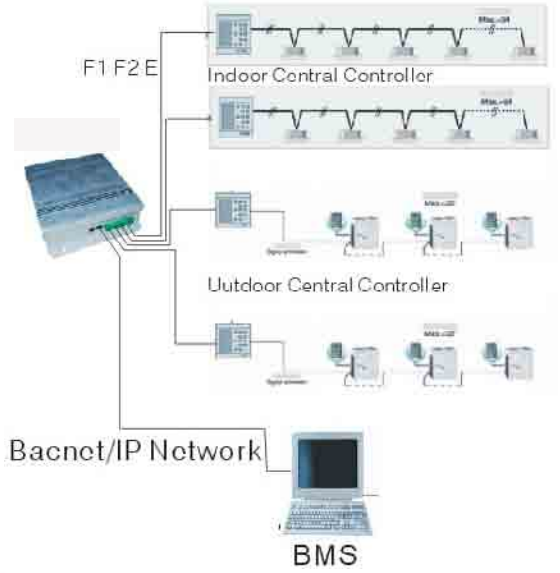
CATALOGUE

1 Connect diagrammatic sketch

1-1 DTBAC IHXR interfaces diagrammatic sketch



1-2 System connecting diagram



CAUTION

1) Universal BACnet of HOKKAIDO (incluod indoor unit CABnet and outdoor unitCABnet) in the same DTBAC series BACnet whose address dial are differentia.
2) Both DTBAC series BACnet and building control system that must connect with the same sub-net segment of IP.

4 Objiect Array

9) Error states

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate-input 3	R
Object Name	CharacterString	AC _lMalfunction	R
Object Type	BACnetObjectType	Multistate-input	R
Discription	CharacterString	Malfunction State	0
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 E8 E7 E6 E5 E4 E3 E2 E1 E0 No E	0
Time delay	Unsigned	1	0
Publicly type	Unsigned	1701	0
Event enable	BACnetEventTransitionBits	T T T	0
Affirm transform	BACnetEventTransitionBits	T T T	0
Notify Type	BACnetNotifyType	alarm	0
Handing instruction	Express current value of object as malfunction states what choosed. The current value hasn't set. Express current value as 'No E' means of unfault. Express malfunction states as others value, detailed infromation refer to Air Conditioner service after sale. Objects just display the minimal code when appare multiform malfunctions.		

4 Objiect Array

8) Compressor 3 current

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 5	R
Object Name	CharacterString	AC_ lCom3Current	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Compressor 3 current	0
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	0
Maximum	REAL	200	0
Time delay	Unsigned	1	0
Publicly type	Unsigned	1701	0
Low valve value	REAL	0	0
High valve value	REAL	200	0
Width valve value	REAL	1	0
Enable valve value	BACnetLimitEnable	F T	0
Event enable	BACnetEventTransitionBits	T T T	0
Notify Type	BACnetNotifyType	alarm	0
Handing instruction	Express current value of objects as compressor 3 current what choosed. The current value hasn't set. Minimum means of the low limit value of temperature, maximum means of the high limit value of temperature. BMS will receive alarm that produced by BACnet while current value greater than the low limit value or less than the high limit value.		

2 Function description

This unit shall be installed as a medium between Building Management System (BMS) and XRV air conditioning, which provide with BACnet® interfaces, and XRV central air conditioning system, associating these two systems to realize the systems integration.

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

2-1 Information collection

This unit is provided a function that collecting information from XRV 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 list" for detail object infromation.

2-2 Operation control

The unit provides BMS control XRV central air conditioning, with seven setting functions to control the indoor units in which of the system. Setting functions included "Operation mode setting", "Open time setting", "Close time setting", "Auxiliary swing function setting" and "electric heater assistant function setting". By modify the correspondingBACnet object variables to set the unit's operation status. Refer to "Object list" 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 infromation.

CAUTION

Both DTBAC series BACnet and building control system that must connect with the same sub-net segment of IP, whether the equipment can't work nomally.

4 Objiect Array

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	0
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	0
Maximum	REAL	200	0
Time delay	Unsigned	1	0
Publicly type	Unsigned	1701	0
Low valve value	REAL	0	0
High valve value	REAL	200	0
Width valve value	REAL	1	0
Enable valve value	BACnetLimitEnable	F T	0
Event enable	BACnetEventTransitionBits	T T T	0
Notify Type	BACnetNotifyType	alarm	0
Handing instruction	Express current value of objects as compressor 2 current what choosed. The current value hasn't set. Minimum means of the low limit value of temperature, maximum means of the high limit value of temperature. BMS will receive alarm that produced by BACnet while current value greater than the low limit value or less than the high limit value.		

4 Objiect Array

6) Compressor 1 current

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 3	R
Object Name	CharacterString	AC_ lCom1Current	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Compressor 1 current	0
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	0
Maximum	REAL	200	0
Time delay	Unsigned	1	0
Publicly type	Unsigned	1701	0
Low valve value	REAL	0	0
High valve value	REAL	200	0
Width valve value	REAL	1	0
Enable valve value	BACnetLimitEnable	F T	0
Event enable	BACnetEventTransitionBits	T T T	0
Notify Type	BACnetNotifyType	alarm	0
Handing instruction	Express current value of objects as compressor 1 current what choosed. The current value hasn't set. Minimum means of the low limit value of temperature, maximum means of the high limit value of temperature. BMS will receive alarm that produced by BACnet while current value greater than the low limit value or less than the high limit value.		

3 Configuration illustration

3-5 Data collection setting

Air conditioning provides function for saving running data, correspond time data saved in different capacity SD that choosed by customer. The equipment has configured SD before ex-factory. The card got by buyerself.

Presentation: alarm log will record the message of SD down load fail when air conditioning didn't install SD, the device hasn't affected during nomally run.

3-6 BACnet setting

BACnet network cord of range between 0 and 255, which one of these only express one CBAnet. After set and restart the equipment, then modifier will performed.

BACnet network cord is BACnet network number in XRV air conditioning BACnet. Different BACnet must set different network code which is only one in BACnet network, other equipment or BACnet does't use.

4 Objiect Array

For indoor unit and two kinds of outdoor units in XRV system, different objects array provided by the equipment. Identify of air conditioning and product of BACnet object what produce by itself.

4-1 Indoor object array

The equipment provides eleven kinds of BACnet objects in the table for connecting with indoor unit in the table, which used by building management system (BMS) and other system that support BACnet protocol.

Number	Content
1	device infromation
2	Run mode
3	Fan states
4	Preset Temperature
5	Indoor temperature
6	Set on time
7	Set off time
8	Swing function
9	Electric heater function
10	Malfunction states
11	Protection states

4 Objiect Array

5) Indoor quantity

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 2	R
Object Name	CharacterString	AC_ lTotalACs	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Indoor unit qty	0
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	0
Maximum	REAL	250	0
Time delay	Unsigned	1	0
Publicly type	Unsigned	1701	0
Low valve value	REAL	0	0
High valve value	REAL	250	0
Width valve value	REAL	1	0
Enable valve value	BACnetLimitEnable	F T	0
Event enable	BACnetEventTransitionBits	T T T	0
Notify Type	BACnetNotifyType	alarm	0
Handing instruction	Express current value of objects as indoor unit quantity what choosed. The current value has' t set.		

4) Outdoor termperature

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 1	R
Object Name	CharacterString	AC_ITempOutoor	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Outdoor Temperature	0
Status Flags	BACnetStatusFlags	F F F	R
Event states	BACnet EventStates	Normal	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Degree-Celsius	R
Minimum	REAL	-20	0
Maximum	REAL	100	0
Time delay	Unsigned	1	0
Publicly type	Unsigned	1701	0
Low valve value	REAL	-20	0
High valve value	REAL	100	0
Width valve value	REAL	1	0
Enable valve value	BACnetLimitEnable	F T	0
Event enable	BACnetEventTransitionBits	T T T	0
Notify Type	BACnetNotifyType	event	0
Handing instruction	Express current value of object as outdoor temperature what choosed. The current value of object has' t set. Minimum means of the low limit value of temperature, maximum means of the high limit value of temperature. BMS will receive alarm that produced by BACnet while current value greater than the low limit value or less than the high limit value.		

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	Unisgned16		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	0
APDU Timeover	Unsigned	3000	R
APDU Resend Times	Unsigned	3	R
Device Address Binding	AddressBinding	ASN.1 ''	R
Handing instruction	Express object name as unit mode information what choosed and hasn' t set.		

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
Handing instruction	Express current value of object as running mode of states when choosed at the moment. The current value of object is wirte that has set. Air conditioning is auto-running mode while current value is ‘1’. Current value of object is ‘2’ means that cooling. Current value of object is ‘3’ means that heating. Current value of object is ‘4’ means that exhaust humidity. Current value of object is ‘5’ means that blowing-in. Current value of object is ‘6’ means that stop running.		

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	serviceBOOLEAN	F	R
States number	Unsigned	4	R
States text	BACnet ARRAY[N] CharacterString	Low Middle High 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
Handing instruction	Express current value of object as fan running speed what choosed. The current object has’ t set. Current value is 1 that means of high-wind; current value is 2 that means of mid-wind; current value is 3 that means of low-wind; current value is 4 that means of fan stop.		

2) Running mode

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Multistate-input 1	R
Object Name	CharacterString	AC_lOperationMode	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
Handing instruction	Express current value of object as outdoor running mode which choosed. The current value of object has' t set. Current value is 1 that means of water pump mode; current value is 2 that means of heating mode; current value is 3 that means of cooling. Current value is 4 that means of close mode. Current value is 1 that will effect water unit only.		

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
Handing instruction	Express current value of object as air speed of running states what choosed at the moment. The current value of object is wirte; it has set. Air conditioning running mode is auto-wind when current value of object is '1'. Current value of object is '2' that means of high-wind. Current value of object is '3' that means of mid-wind. Current value of object is '4' that means of low-wind. Current value of object is '5' that means of breeze. Please attention current value of object is '6' that means of stop running, which will auto-ignored by air conditioning system.for nomal working.		

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
Handing instruction	Express cuurent value as Preset temperature what choosed at the moment. The current value of object is write, which has set. Express minimum as low limit value of temperature. Express maximum as high limit value of temperature, preset temperature doesn't over the value of between low limit temperature and high limit temperature.		

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	Unisgned16	111(暂定)	R
Model Name	CharacterString	Frequency Conversion AC 或者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 等	R
Protocol Object Types Support	BACnetObjectTypesSupport	AnalogInput 等	R
Object Array	BACnetArray[n]	列出所有对象	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
Handing instruction	Express object name as unit information what choosed. The object name has' t set.		

4-2 Object Array

The equipment provides ten kinds of BACnet objects in the table for connecting with DC air conditioning in the table, which used by building management system (BMS) and other system that support BACnet protocol。

Number	Content
1	device infromation
2	Run mode
3	Fan states
4	Outdoor termperature
5	Indoor quantity
6	Compressor 1 current
7	Compressor 2 current
8	Compressor 3 current
9	Error states
10	Protect states

5) Room temprature

Attribute Identifier	Data mode	Attribute value	Read/write
Object Identifier	BACnetObjectIdentifier	Analog-iutput 1	R
Object Name	CharacterString	AC _ITemplndoor	R
Object Type	BACnetObjectType	Analog-iutput	R
Current value	REAL	0	R
Discription	CharacterString	Indoor temperature	0
Status Flags	BACnetStatusFlags	F F F F	R
Event states	BACnet EventStates	Normal	R
可靠性	BACnetReliability	NO-FAULT-DETECTED	R
Take off service	BOOLEAN	F	R
Unit	BACnetEngineering Units	Degree-Celsius	R
Minimum	REAL	-20	0
Maximum	REAL	100	0
Distinguishability	REAL	1	0
Time delay	Unsigned	1	0
Publicly type	Unsigned	1701	0
Low valve value	REAL	-20	0
High valve value	REAL	100	0
Width valve value	REAL	1	0
Enable valve value	BACnetLimitEnable	F T	0
Event enable	BACnetEventTransitionBits	T T T	0
Notify Type	BACnetNotifyType	event	0
Handing instruction	Express current value of object as indoor termperature when choosed at the moment. Current value of object has read only and hasn’t set. Express minimum as low limit value of temperature. Express maximum as high limit value of temperature, BMS received the alarm what produced by BACnet.		

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
Handing instruction	Express current value of object as set on time when choosed at the moment. Current value of object is writing and has set. Express minimum as low limit value of set on time. Express maximum as high limit value of set on time, set on time can't over between low limit time and high limit time. The time will grow 15 minutes when the value grows one.		

11) Pretection 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	O	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 PO 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
Handing instruction	Express current value of object as pretection states what choosed at the moment. The current value of object is read only. Express current value as 'No P' that means unpretected. Express pretection states as other value, detailed infromation refer to Air Conditioner service after sale. Objects just display the minimal code when appare multiform pretection.		

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 EA E9 E8 E7 E6 E5 E4 E3 E2 E1 EO No E	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
handing instruction	Express current value of object as malfunction states when choosed at the moment. The current value of object is read only. Current value express as 'No E' that means unfault. Express malfunction states as other value, detailed infromation refer to Air Conditioner service after sale. Objects just display the minimal code when appare multiform malfunctions.		

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
Handing instruction	Express current value of object as set off time when choosed at the moment. Current value of object is writing and has set. Express minimum as low limit value of set on time. Express maximum as high limit value of set on time, set off time can't over between low limit time and high limit time. The time will grow 15minutes when the value grows one.		

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	OBACnetDateTime		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
Handing instruction	Express current value of object as swing states when choosed at the moment. ‘inactive’ means that swing function be closed, ‘active’ means that swing function opend.		

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 O	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
Handing instruction	Express current object of object as electric heater function when choosed at the moment. ‘inactive’ means that electric heater function be closed, ‘active’ means that electric heater function opend. The order will be auto-ignored when setting on electric heater function of air conditioning during cooling.		