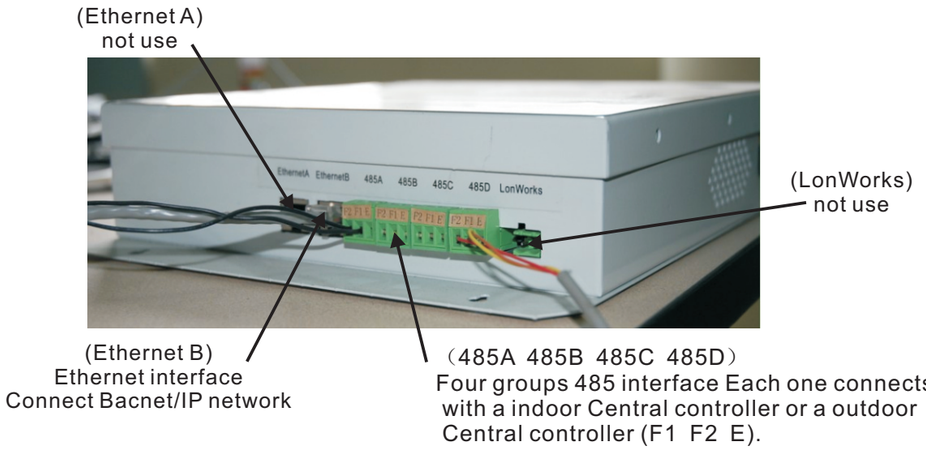
MDV07I-049aW
202055100106

BUILDING GATEWAYS CCMO8

Specifications Manual

Please keep this specifications manual properly.
Read this operation manual carefully before using the unit.

Interfaces diagrammatic



Outline

PURPOSE

For the connection between Air conditioner system and the Building Management System (BMS) (namely Automated Building System) with®BACnet interfaces by realizing the integration of MDV system and Building Management system.

FEATURES

- Insert Air conditioner system to ®BACnet。
- Comply with ®BACnet Standard, base on ®BACnet technique。
- The core control module of node applies Flash Memory, which application program could be downloaded and upgrade on line.
- Support BACnet/IP Protocol, Ethernet connected way.Support four 485 interfaces, convenient for installation and wiring, each interface which Pluggable Terminal connecting with only one general BACnet of air conditioner.
- Connection BACnet Air Conditioner with AUTO-ID (including BACnet of indoor unit and outdoor unit), connection between Air Conditioner indoor unit and outdoor unit with AUTO-ID.

SPECIFICATION

	Function	Description
1	Processor	SAMSUNG ARM9 S3C2410
2	Memory	HY57V561620T 133MHZ 64M
3	Saver	SAMSUNG K9F1208VOB 64M
4	I/O	4 road 485 interface
5	BACnet connection	BACnet/IP
6	Input supply power	220VAC
7	Work temperature	Temperature : 0～50℃ , Relative humidity : 25～90%
8	Mass of Function	See owner's manual
9	Dimension	26cm X 25cm X 6cm

Option of Data Link Layer

☑ ISO 8802-3,10BASE5	☐ ARCNET,coax star
☑ ISO 8802-3,10BASE2	☐ ARCNET,coax bus
☑ ISO 8802-3,10BASET	☐ ARCNET,twisted pair star
☑ ISO 8802-3,Fiber	☐ ARCNET,twisted pair star
☐ MS/TP master,baudrate(s):_____	☐ ARCNET, fiber star
☐ MS/TP slave,baud rate(s):_____	☐ LonTalk,medium:_____
☐ Point-To-Point,EIA232,baudrate(s):_____	☐ other
☐ Point-To-Point,modem,baud rate(s):_____	☐

Supportive character set

Support multi-character set doesn't mean that it's synchronously supported.

☑ ANSI X3.4	☑ IBM TM/Microsoft TM ISO	☐ JIS C 6226
ISO 10646(ICS-4)	√ 10646(UCS2)	ISO 8859-1

Especial Funtion

Subsection request support	☑ yes	☐no	window size:1476
Subsection respond support	√		window size:1476

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

Supportive object Type

Object Type	supported or not	Dynamic established or not	Dynamic deleted or not	optional support of attribute	Writable attribute
Analog Input Object Type	☑	☑	☑		
Analog Output Object Type	☑	☑	☑		
Analog Value Object Type	☑	☑	☑		
Binary Input Object Type	☑	☑	☑		
Binary Output Object Type	☑	☑	☑		
Binary Value Object Type	☑	☑	☑		
Calendar Object Type	☑	☑	☑		
Command Object Type	☑	☑	☑		
Device Object Type	☑	☑	☑		
Event Enrollment Object Type	☑	☑	☑		
File Object Type	☐	☐	☐		
Group Object Type	☐	☐	☐		
Loop Object Type	☑	☑	☑		
Multi-state Input Object Type	☑	☑	☑		
Multi-state Output Object Type	☑	☑	☑		
Notification Class Object Type	☑	☑	☑		
Program Object Type	☑	☑	☑		
Schedule Object Type					

Announce BACnet protocol realize the consistency

Product description

For inserting field apparatus system to BACnet building control network which will realizable and possible by the BACnet protocol integration of BACnet. To realize that monitor field apparatus through RS485 interface. To realize that communicate with BMS control system through BACnet/IP interfaces.

Mode of supportive BACnet consistency

Mode1	☐	Mode4	☐
Mode2	☑	Mode5	☐
Mode3	☐	Mode6	☐

Functional group of supportive BACnet

Functional group of supportive BACnet	☐
Hand-operation equipment functional group	☐
Personal computer working station functional group	☐
Event start functional group	☑
Event response functional group	☑
COV event start functional group	☑
COV event response functional group	☑
File functional group	☐
Reinitialization functional group	☑
Virtual operator interface functional group	☐
Virtual terminal functional group	☑
Communication equipment functional group	☐
Time main station functional group	☐

Application services of supplied BACnet

Application services	request start	request preformed
Confirm alarm	☑	☐
Confirmed COV notification	☐	☐
Confirmed event notification	☑	☐
Get Alarm Summary	☑	☐
Get Enrollment Summary	☐	☐
Unconfirmed COV Notification	☐	☐
Unconfirmed event notification	☐	☐
Atomic Read File	☐	☐
Atomic write File	☐	☐
Add List Element	☐	☐
Remove List Element	☑	☐
Create Object	☑	☐
Delete Object	☑	☐
Read Property	☑	☐
Read Property Conditional	☑	☐
Read Property Multiple	☑	☐
Write Property	☑	☐
Write Property Multiple	☑	☐
Device Communication Control	☐	☐

Application services of supplied BACnet

Application services	request start	request preformed
Confirmed Private Transfer	☐	☐
Unconfirmed Private Transfer	☐	☐
Reinitialize Device	☐	☐
Confirmed Text Message	☐	☐
Unconfirmed Text Message	☐	☐
Time Synchronization	☑	☐
Who-Has	☑	☐
I-Has	☑	☐
Who-Is	☑	☐
I-Am	☐	☐
VT Open	☐	☐
VT-Open	☐	☐
VT-Open	☐	☐
Authentication Service	☐	☐
request secret key service		