



iSMA-B-AAC20 Series

Protocol Implementation Conformance Statement

BACnet PICS



Global Control 5 S.A.

Poland, Warsaw

www.gc5.pl

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1 Protocol implementation conformance statement

1.1 BACnet Protocol Implementation Conformance Statement

Date	2020-06-29
Vendor Name	Global Control 5
Product Name	iSMA-B-AAC20 Series
Product Model Number	iSMA-B-AAC20 iSMA-B-AAC20-LCD iSMA-B-AAC20-D iSMA-B-AAC20-LCD-D iSMA-B-AAC20-M iSMA-B-AAC20-LCD-M
Firmware Revision	6.0
BACnet Protocol Revision	1.16

Table 1 BACnet Protocol Implementation Conformance Statement

1.2 BACnet Standardized Device Profile

Product Model	Standardized Device Profile
iSMA-B-AAC20	B-AAC
iSMA-B-AAC20-LCD	B-AAC
iSMA-B-AAC20-D	B-AAC
iSMA-B-AAC20-LCD-D	B-AAC
iSMA-B-AAC20-M	B-AAC
iSMA-B-AAC20-LCD-M	B-AAC

Table 2 BACnet Protocol Standardized Device Profile

1.3 BACnet Interoperability Building Blocks Supported

Application Service	Designation
Data Sharing - Read Property - A	DS-RP-A
Data Sharing - Read Property - B	DS-RP-B
Data Sharing - Read Property Multiple- B	DS-RPM-B
Data Sharing - Write Property - A	DS-WP-A
Data Sharing - Write Property - B	DS-WP-B
Data Sharing - Write Property Multiple - B	DS-WPM-B
Alarm and Event Management – Notification – Internal - B	AE-N-I-B
Alarm and Event Management – Acknowledge - B	AE-ACK-B
Alarm and Event Management – Alarm Summary - B	AE-ASUM-B
Alarm and Event Management – Information - B	AE-INFO-B
Alarm and Event Management – Configurable Recipient List - B	AE-CRL-B
Scheduling – Internal - B	SCHEM-I-B
Trending - View and Modify Trends - Internal - B	T-VMT-I-B
Device Management - Dynamic Device Binding - A	DM-DDB-A
Device Management - Dynamic Device Binding - B	DM-DDB-B
Device Management - Dynamic Object Binding - B	DM-DOB-B
Device Management - Time Synchronization - B	DM-TS-B
Device Management - UTC Time Synchronization - B	DM-UTC-B
Device Management – Device Communication Control - B	DM-DCC-B
Device Management - Reinitialize Device - B	DM-RD-B
Device Management - List Manipulation - B	DM-LM-B

Table 3 Building Blocks Supported

1.4 BACnet Standard Object Types Supported

The following is a list of the standard object types as defined by ASHRAE.

Object Name	Quantity of objects (max in application)
Analog Value	200
Binary Value	200
Multistate Value	200
Device	1
Schedule	30
Calendar	5
Trend Log	100
Notification Class	10

Table 4 Objects types supported by modules

1.5 Data Link Layer Option

- Master-Slave/Token-Passing (MS/TP) master (Clause 9), baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 76800, 115200
- MS/TP slave (Clause 9), baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 76800, 115200
- BACnet Internet Protocol (IP) (Annex J)
- BACnet IP (Annex J), Foreign Device

1.6 Character Sets Supported

UTF-8

1.7 Supported Application Services

Application Service	Initiates Requests	Executes Requests
I-Am	yes	yes
I-Have	yes	
ReadProperty	yes	yes
ReadPropertyMultiple		yes
Who-Has		yes
Who-Is	yes	yes
WriteProperty	yes	yes
WritePropertyMultiple		yes
DeviceCommunicationControl		yes
ReinitializeDevice		yes
TimeSynchronization		yes
UTCTimeSynchronization		yes
ReadRange		yes
GetEventInformation		yes
GetAlarmSummary		yes
AcknowledgeAlarm		yes
ConfirmedEventNotification	yes	
UnconfirmedEventNotification	yes	
AddListElement		yes
RemoveListElement		yes

Table 5 Supported Application Services

1.8 Device BACnet Objects

1.8.1 Device BACnet Object description

Dynamically Creatable: No, Dynamically Deletable: No

Property Name	Required	Proprietary	Writable	Property ID	Data Type	Description
OBJECT_IDENTIFIER	yes					
OBJECT_NAME	yes					
OBJECT_TYPE	yes					
SYSTEM_STATUS	yes					
VENDOR_NAME	yes					
VENDOR_IDENTIFIER	yes					
MODEL_NAME	yes					
FIRMWARE_REVISION	yes					
APPLICATION_SOFTWARE_VERSION	yes					
PROTOCOL_VERSION	yes					
PROTOCOL_REVISION	yes					
PROTOCOL_SERVICES_SUPPORTED	yes					
PROTOCOL_OBJECT_TYPES_SUPPORTED	yes					
OBJECT_LIST	yes					
MAX_APDU_LENGTH_ACCEPTED	yes					
SEGMENTATION_SUPPORTED	yes					
APDU_TIMEOUT	yes					
NUMBER_OF_APDU_RETRIES	yes					
MAX_MASTER	yes					
MAX_INFO_FRAMES	yes					
DEVICE_ADDRESS_BINDING	yes					
DATABASE_REVISION	yes					
PROPERTY_LIST	yes					
DESCRIPTION						
LOCATION						
LOCAL-TIME						
LOCAL-DATE						
UTC-OFFSET						
DAYLIGHT-SAVING-STATUS						

Table 6 Device BACnet Object

1.9 Communication gateway

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

- This product supports communications between BACnet and any third-party system to which AAC20 can connect. Contact Global Control 5 for a list of supported protocols.