



BACnet Protocol Implementation Conformance Statement

Products

Product	Model Number	Protocol Revision	Software Version	Firmware Version
AAC-1030	AAC-1030	135-2008 (7)	1.2.28.771	1.2.28.771

Date Tested: 1 September 2015

Vendor Information

No.23/453 Soi Western Railway Village,
Hua Hin District,
Prachuapkhirikhan Province,
Thailand 77110

Product Description

The AAC-1030 is a programmable BACnet device with 10 Digital Inputs, 8 Universal Inputs, 6 Digital Outputs and 6 Analog Outputs. It has 2 RS485 ports which can be used for BACnet MSTP or Modbus and can be configured to operate as a BACnet IP to MSTP router. When configured as a gateway it map from Modbus to BACnet or vice versa. It is fully programmable via a graphical engineering tool and has support for BACnet Alarms, Schedules and Trendlogs.

BACnet Standardized Device Profile

Product	Device Profile	Tested
AAC-1030	BACnet Application Specific Controller (B-ASC)	



Supported BIBBs

Product	Supported BIBBs	BIBB Name	
SE-BSDKDB-WIN SE-BSDKDB-LIN	DS-RP-A	Data Sharing-ReadProperty-A	
	DS-RP-B	Data Sharing-ReadProperty-B	
	DS-RPM-A	Data Sharing-ReadPropertyMultiple-A	
	DS-RPM-B	Data Sharing-ReadPropertyMultiple-B	
	DS-WP-A	Data Sharing-WriteProperty-A	
	DS-WP-B	Data Sharing-WriteProperty-B	
	DS-WPM-A	Data Sharing-WritePropertyMultiple-A	
	DS-WPM-B	Data Sharing-WritePropertyMultiple-B	
	DS-COV-A	Data Sharing-COV-A	
	DS-COV-B	Data Sharing-COV-B	
	DS-COVP-A	Data Sharing-COVP-A	
	DS-COVP-B	Data Sharing-COVP-B	
	DS-COVU-A	Data Sharing-COV-Unsolicited-A	
	DS-COVU-B	Data Sharing-COV-Unsolicited-B	
	SCHED-A	Scheduling-A	
	SCHED-I-B	Scheduling-Internal-B	
	SCHED-E-B	Scheduling-External-A	
	T-VMT-A	Trending-Viewing and Modifying Trends-A	
	T-VMT-I-B	Trending-Viewing and Modifying Trends-Internal-B	
	T-VMT-E-B	Trending-Viewing and Modifying Trends-External-B	
	T-ATR-A	Trending-Automated Trend Retrieval-A	
	T-ATR-B	Trending-Automated Trend Retrieval-B	
	NM-CE-A	Network Management-Connection Establishment-A	
	NM-CE-B	Network Management-Connection Establishment-B	
	AE-N-A	Alarm and Event-Notification-A	
	AE-N-I-B	Alarm and Event-Notification Internal-B	
	AE-N-E-B	Alarm and Event-Notification External-B	
	AE-ACK-A	Alarm and Event-ACK-A	
	AE-ACK-B	Alarm and Event-ACK-B	
	AE-ASUM-A	Alarm and Event-Alarm Summary-A	
	AE-ASUM-B	Alarm and Event-Alarm Summary-B	
	AE-ESUM-A	Alarm and Event-Enrollment Summary-A	
	AE-ESUM-B	Alarm and Event-Enrollment Summary-B	
	AE-INFO-A	Alarm and Event-Information-A	
	AE-INFO-B	Alarm and Event-Information-B	
	AE-LS-A	Alarm and Event-LifeSafety-A	
	AE-LS-B	Alarm and Event-LifeSafety-B	
	DM-RD-A	Device Management-ReinitializeDevice-A	



Product	Supported BIBBs	BIBB Name	
	DM-RD-B	Device Management-ReinitializeDevice-B	
	DM-DDB-A	Device Management-Dynamic Device Binding-A	
	DM-DDB-B	Device Management-Dynamic Device Binding-B	
	DM-DOB-A	Device Management-Dynamic Object Binding-A	
	DM-DOB-B	Device Management-Dynamic Object Binding-B	
	DM-DCC-A	Device Management-DeviceCommunicationControl-A	
	DM-DCC-B	Device Management-DeviceCommunicationControl-B	
	DM-PT-A	Device Management-Private Transfer-A	
	DM-PT-B	Device Management-Private Transfer-B	
	DM-TM-A	Device Management-Text Message-A	
	DM-TM-B	Device Management-Text Message-B	
	DM-TS-A	Device Management-TimeSynchronization-A	
	DM-TS-B	Device Management-TimeSynchronization-B	
	DM-UTC-A	Device Management-UTCTimeSynchronization-A	
	DM-UTC-B	Device Management-UTCTimeSynchronization-B	
	DM-LM-A	Device Management-List Manipulation-A	
	DM-LM-B	Device Management-List Manipulation-B	
	DM-OCD-A	Device Management-Object Creation and Deletion-A	
	DM-OCD-B	Device Management- Object Creation and Deletion -B	



Standard Object Types Supported

Product	Object Type	Creatable	Deletable	Tested
AAC-1030	Analog Input	Yes	No	
	Analog Output	Yes	No	
	Analog Value	Yes	No	
	Binary Input	Yes	No	
	Binary Output	Yes	No	
	Binary Value	Yes	No	
	Device	No	No	
	Event Enrollment	Yes	No	
	File	Yes	No	
	Multi-state Input	Yes	No	
	Multi-state Output	Yes	No	
	Multi-state Value	Yes	No	
	Notification Class	Yes	No	
	Schedule	Yes	No	
	Trend Log	Yes	No	

Data Link Layer Options

Product	Data Link	Options	Tested
AAC-1030	BACnet/IP (Annex J)	Can communicate as a Direct BACnet/IP device. Can register as a Foreign BACnet/IP device.	
	MS/TP Master	9600, 19200, 38400, 76800	

Segmentation Capability

Product	Segmentation Type	Supported	Window Size (MS/TP product limited to 1)	Tested
AAC-1030	Able to transmit segmented messages	Yes	Configurable	
	Able to receive segmented messages	Yes	Configurable	

Device Address Binding

Product	Static Binding Supported	Tested
AAC-1030	Yes	



Networking Options

Product	Router Option	Options	Tested
AAC-1030	Router	Multiple BACnet/IP, Multiple MS/TP	

Character Sets

Product	Character Sets supported	
AAC-1030	ANSI X3.4	
	IBM Microsoft DBCS	
	ISO 8859-1	