



BACnet Protocol Implementation Conformance Statement

Products

Product	Model Number	Protocol Revision	Software Version	Firmware Version
AAC-1000	AAC-1000	135-2008 (7)	1.2.28.771	1.2.28.771

Date Tested: 2 March 2010

Vendor Information

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

Product Description

The AAC-1000 is a programmable multiprotocol RS-485 device, which allows both routing and bridging between open protocols used in automation systems. When configured as a BACnet router it can route messages between its RS-485 (MSTP) port and Ethernet (BACnet/IP) port. When configured as a gateway it can bridge between Modbus and BACnet protocols seamlessly. 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-1000	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
	Averaging	Yes	Yes	
AAC-1000	Analog Input	Yes	Yes	
	Analog Output	Yes	Yes	
	Analog Value	Yes	Yes	
	Binary Input	Yes	Yes	
	Binary Output	Yes	Yes	
	Binary Value	Yes	Yes	
	Calendar	Yes	Yes	
	Device	No	No	
	Event Enrollment	Yes	Yes	
	File	Yes	Yes	
	Multi-state Input	Yes	Yes	
	Multi-state Output	Yes	Yes	
	Multi-state Value	Yes	Yes	
	Notification Class	Yes	Yes	
	Program	Yes	Yes	
Schedule	Yes	Yes		
Trend Log	Yes	Yes		

Data Link Layer Options

Product	Data Link	Options	Tested
AAC-1000	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-1000	Able to transmit segmented messages	Yes	Configurable	
	Able to receive segmented messages	Yes	Configurable	

Device Address Binding

Product	Static Binding Supported	Tested
AAC-1000	Yes	



Networking Options

Product	Router Option	Options	Tested
AAC-1000	Router	Multiple BACnet/IP, Multiple MS/TP	

Character Sets

Product	Character Sets supported	
AAC-1000	ANSI X3.4	
	IBM Microsoft DBCS	
	ISO 8859-1	