



Carbon Monoxide Rough Service - BACnet Protocol Implementation Conformance Statement

Application Note

CO_RoughServ_BACnet_PICS

rev. 03/08/19

BACnet Protocol Implementation Conformance Statement (PICS)

Date: 07MAR2019

Vendor Name: Building Automation Products, Inc.

Product Name: Rough Service Carbon Monoxide with BACnet

Product Model Number: BA/BBV-CO

Applications Software Version: V4.000

Firmware Revision: V1.000

BACnet Protocol Revision: 12

Product Description

BAPI's Carbon Monoxide Rough Service Sensor offers enhanced electrochemical sensing with outstanding accuracy at low concentrations. It features a ventilated BAPI-Box and is ideal for parking ramps, equipment rooms and warehouses. The sensor has a CO range of 0 to 500 ppm with field selectable outputs of 0 to 5, 1 to 5, 0 to 10 and 2 to 10 VDC. It includes optional humidity measurement with one of the above voltage outputs, and temperature via a 10K-2, 10K-3 or 20K Thermistor. The CO, temperature and humidity outputs are also available via BACnet MS/TP.

BACnet Standardized Device Profile (Annex L):

- BACnet Operator Workstation (B-OWS)
- BACnet Building Controller (B-BC)
- BACnet Advanced Application Controller (B-AAC)
- BACnet Application Specific Controller (B-ASC)
- BACnet Smart Sensor (B-SS)
- BACnet Smart Actuator (B-SA)

List all BACnet Interoperability Building Blocks Supported (Annex K):

- Data Sharing – ReadProperty-A (DS-RP-A)
- Data Sharing – ReadProperty-B (DS-RP-B)
- Data Sharing – ReadPropertyMultiple-B (DS-RPM-B)
- Data Sharing – WriteProperty-A (DS-WP-A)
- Data Sharing – WriteProperty-B (DS-WP-B)
- Data Sharing – WritePropertyMultiple-B (DS-WPM-B)
- Data Sharing – COV-B (DS-COV-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 – DeviceCommunicationControl-B (DM-DCC-B)
- Device Management – ReinitializeDevice-B (DM-RD-B)

Segmentation Capability:

- Able to transmit segmented messages Window Size _____
- Able to receive segmented messages Window Size _____



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Standard Object Types Supported:

Property	Object Type		
	Device	Binary Input	Analog Input
Object Identifier	W	R	R
Object Name	W	R	R
Object Type	R	R	R
System Status	R		
Vendor Name	R		
Vendor Identifier	R		
Model Name	R		
Firmware Revision	R		
Protocol Version	R		
Object Types Supported	R		
Object List	R		
APDU Timeout	W (10...65535)		
Number APDU Retries	W (0...10)		
Max Master	W (1...127)		
Max Info Frames	W (1...100)		
Device Address Binding	R		
Present Value		R	R
Units			R
COV Increment			W
Polarity		W	

R – Readable using BACnet services

W – Readable and writable using BACnet services

Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s) _____
- MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 57600, 76800, 115200
- MS/TP slave (Clause 9), baud rate(s): _____
- Point-To-Point, EIA 232 (Clause 10), baud rate(s): _____
- Point-To-Point, modem, (Clause 10), baud rate(s): _____
- LonTalk, (Clause 11), medium: _____
- Other: _____



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Device Address Binding:

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.) ■ Yes □ No

Networking Options:

- Router, Clause 6 - List all routing configurations
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
Does the BBMD support registrations by Foreign Devices? □ Yes □ No

Network Security Options:

- Non-secure Device - is capable of operating without BACnet Network Security
- Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)
 - Multiple Application-Specific Keys:
 - Supports encryption (NS-ED BIBB)
 - Key Server (NS-KS BIBB)

Character Sets Supported:

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

- ISO 10646 (UTF-8) □ IBM™/Microsoft™ DBCS □ ISO 8859-1
- ISO 10646 (UCS-2) □ ISO 10646 (UCS-4) □ JIS X 0208