

BACnet Protocol Implementation Conformance Statement (PICS)



XDUCER-W-TH



XDUCER-D-T

Date: Aug 20, 2018
Vendor Name: TemcoControls.com
Product Name: Bacnet Transducer
Application Software Ver: N/A
Firmware Revision: 6.8
BACnet Protocol Rev: 12

Product Description:

Duct temperature and humidity sensor / transmitter is applicable to all kinds of building automation, environment monitoring, HVAC systems. Product appearance is simple, direct connection terminals, convenient installation. Products use high performance embedded microprocessor, and high-precision sensors to meet all kinds of high precision, high stability of the temperature and humidity measurement requirements, and variety needs of different environments. Duct temperature sensor / transmitter has current, voltage, 485 output signal to select, using 485 serial port output and Modbus communication protocol. It is commonly used in HVAC, electrical plant, environment monitoring, dynamic environment monitoring, agricultural environmental monitoring, meteorological environmental monitoring, environmental monitoring of biological pharmacy, airport, subway stations, hotel, museum, stadium, etc.

BACnet Standardized Device Profile (Annex L):

- BACnet Operator Workstation (B-OWS)
- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Display (B-OD)
- 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):

BACnet B-ASC BIBBs Support

Required for B-ASC Profile	Function	Designation	Support
Data Sharing - Read Property - B	Read Objects	DS-RP-B	☑
Data Sharing - Write Property - B	Write Objects	DS-WP-B	☑
Device Management - Dynamic Device Binding – B	Whois/Iam	DM-DDB-B	☑
Device Management - Dynamic Object Binding - B	Whohas/Ihave	DM-DOB-B	☑
Device Communication Control - B	Silence a device	DM-DCC-B	☑
Not Required for B-ASC Profile	Function	Designation	Support
Data Sharing-ReadPropertyMultiple-B	Read Multi	DS-RPM-B	✓
Data Sharing-WritePropertyMultiple-B	Write Multi	DS-WPM-B	✗
Data Sharing-COV-B	Change of value	DS-COV-B	✗
Data Sharing-COVP-B	COVProperty	DS-COVP-B	✗
Device Management-TimeSynchronization-B	Time Sync	DM-TS-B	✓
Device Management-UTCTimeSynchronization-B	UTC Sync	DM-UTC-B	✓
Device Management-ReinitializeDevice-B	Reset	DM-RD-B	✓

Segmentation Capability:

✗	Able to transmit segmented messages
✗	Able to receive segmented messages

Windows Size	1
Window Size	1

Standard Object Types Supported:

The following is a list of the standard object types as defined by ASHRAE. The objects checked are currently supported by this product. See the next section in this document for the supported object type details.

Supported	Bacnet Obejct
✗	Accumulator
✓	Analog Input
✓	Analog Output
✓	Analog Value
✗	Averaging
✗	Binary Input
✓	Binary Output
✗	Binary Value
✓	Calendar
✗	Command
✓	Device
✗	Event Enrollment

Supported	Bacnet Obejct
✗	File
✗	Group
✗	Life Safety Point
✗	Life Safety Zone
✗	Loop
✗	Multistate Input
✗	Multistate Output
✗	MultiState Value
✗	Notification Class
✗	Program
✗	Pulse Converter
✓	Schedule
✗	Trend Log

Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ATA 878.1, EIA-485 ARCNET (Clause 8), baud rate(s) _____
- MS/TP master (Clause 9), baud rate(s): Auto (default), **1200, 9600, 19200, 38400, 76800**
- 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: _____
- BACnet/ZigBee (ANNEX O)
- Other: _____

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

Notes: The Device ID is a non-volatile value that is chosen and configured by someone at the site where the BACnet product is installed. The Device ID is used for resolution of network layer addresses into application layer addresses, commonly referred to as "binding".

Networking Options:

- Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
 - Does the BBMD support registrations by Foreign Devices? Yes No
 - Does the BBMD support network address translation? 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

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports: None.