Phoenix Controls

Protocol Implementation Conformance Statement (PICS)

Date: November 10, 2010
Vendor Name: Phoenix Controls
Product Name: Traccel® BACnet® Valves, Valve Designation prefixed TSV or TEV
Product Model Numbers: TX-IAQ, TP, SO, and EO
Software/Firmware Version: 4.0
BACnet Protocol Revision: 3 (135-2001b)
Product Description: Traccel valve-mounted controllers are application specific and network configurable for performing room-level airflow and comfort control functions. The controller regulates spacial temperatures through a combination of volumetric override and reheat actuator control (either modulating or floating point). Configurations of the Traccel controller determine the room-level control functionality.

BACnet Standardized Device Profile (Annex L)	
BACnet Operator Work Station (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)	☐

Supported BACnet Interoperability Building Blocks (BIBBs) (Annex K)			
DS-RP-B	DS-WP-B	DM-DDB-B	DM-TS-B
DS-RPM-B	DS-WPM-B	DM-DOB-B	DM-RD-B
		DM-DCC-B	

Standard Object Types Supported					
Object Type	Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Analog Input [1]	☒	☐	☐	Description Reliability	N/A
Analog Output [2]	☒	☐	☐	Description	Present Value
Analog Value	☒	☐	☐	Description	Present Value
Binary Input	☒	☐	☐	Description	N/A
Binary Output	☒	☐	☐	Description	Present Value
Binary Value	☒	☐	☐	Description Priority Array [3] Relinquish Default [3]	Present Value

Standard Object Types Supported

Object Type	Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Device [4.]	☒	☐	☐	Description Location Local Time Local Date Daylight Savings Status	Object Name Description Location Local Time Local Date Daylight Savings Status UTC Offset [5.]
File [5.]	☒	☐	☐	Description	Archive
Program [5.]	☒	☐	☐	Description	Program Change

Table Notes:

1. Analog Input range restricted: 0.0 to 4092.0, resolution = 1.0.

2. Range restricted to 0.0 to 511.875, resolution = 0.0625.

3. BV40 only.

4. Range restricted: Maximum Size = 38 octets including initial character set.

5. UTC Offset Range = -900 to +900.

Data Link Layer Options

BACnet IP (Annex J)	☐	MS/TP slave (Clause 9)	☐
BACnet IP (Annex J) Foreign Device	☐	Point-To-Point, EIA 232 (Clause 10)	☐
ISO8802-3 Ethernet (Clause 7)	☐	Point-To-Point, modem (Clause 10)	☐
ATA 878.1, 2.5Mb ARCNET (Clause 8)	☐	LonTalk (Clause 11), medium	☐
ATA 878.1, EIA-485 ARCNET (Clause 8)	☐	Other	☐
MS/TP master (Clause 9) baud rate: 9600, 19200, 38400, 76800 (AutoBaud)	☒		

Segmentation Capability

Segmented Requests Supported	☐ Yes	☒ No	Window Size	
Segmented Responses Supported	☐ Yes	☒ No	Window Size	

Networking Options

Router, Clause 6	☐ Yes	☒ No
Annex H, BACnet tunneling router over IP	☐ Yes	☒ No
BACnet/IP Broadcast Management Device (BBMD)	☐ Yes	☒ No
BBMDs support registrations by Foreign Devices	☐ Yes	☒ No

Character Sets Supported			
ANSI X3.4	☒	ISO 10646 (UCS-4)	☒
IBM™/Microsoft™ DBCS	☒	ISO 10646 (UCS-2)	☒
JIS C 6226	☒	ISO 8859-1	☒
Note: Indicating support for multiple character sets does not imply that they can all be supported simultaneously.			

If this product is a communication gateway, describe the types of non-BACnet equipment/networks supported: N/A