

Protocol Implementation Conformance Statement (PICS)

Date: November 10, 2010
Vendor Name: Phoenix Controls
Product Name: Theris[®] BACnet[®] Valves, Valve Designation prefixed HSV or HEV
Product Model Numbers: TX-RTN, TP, SO, and EO
Software/Firmware Version: 4.0
BACnet Protocol Revision: 3 (135-2001b)
Product Description: Theris valve-mounted controllers are application specific and network configurable for performing room-level airflow and comfort control functions. The controller maintains room ventilation and pressurization by modulating flow commands to supply, exhaust, and return air flow valves. The controller regulates spacial temperatures through a combination of volumetric override and reheat actuator control (either modulating or floating point). Configurations of the Theris controller determine the room-level control functionality.

BACnet Standardized Device Profile (Annex L)	
BACnet Operator Work Station (B-OWS)	<input type="checkbox"/>
BACnet Building Controller (B-BC)	<input type="checkbox"/>
BACnet Advanced Application Controller (B-AAC)	<input type="checkbox"/>
BACnet Application Specific Controller (B-ASC)	<input checked="" type="checkbox"/>
BACnet Smart Sensor (B-SS)	<input type="checkbox"/>
BACnet Smart Actuator (B-SA)	<input type="checkbox"/>

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability	N/A
Analog Output ²	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	Present Value
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	Present Value
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	N/A
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	Present Value
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	Archive
Program ⁵	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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)	<input type="checkbox"/>	MS/TP slave (Clause 9)	<input type="checkbox"/>
BACnet IP (Annex J Foreign Device)	<input type="checkbox"/>	Point-To-Point, EIA 232 (Clause 10)	<input type="checkbox"/>
ISO8802-3 Ethernet (Clause 7)	<input type="checkbox"/>	Point-To-Point, modem (Clause 10)	<input type="checkbox"/>
ATA 878.1, 2.5Mb ARCNET (Clause 8)	<input type="checkbox"/>	LonTalk (Clause 11), medium	<input type="checkbox"/>
ATA 878.1, EIA-485 ARCNET (Clause 8)	<input type="checkbox"/>	Other	<input type="checkbox"/>
MS/TP master (Clause 9) baud rate: 9600, 19200, 38400, 76800 (AutoBaud)	<input checked="" type="checkbox"/>		

Segmentation Capability				
Segmented Requests Supported	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Window Size	
Segmented Responses Supported	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Window Size	

Networking Options		
Router, Clause 6	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Annex H, BACnet tunneling router over IP	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
BACnet/IP Broadcast Management Device (BBMD)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
BBMDs support registrations by Foreign Devices	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Character Sets Supported			
ANSI X3.4	<input checked="" type="checkbox"/>	ISO 10646 (UCS-4)	<input checked="" type="checkbox"/>
IBM™/Microsoft™ DBCS	<input checked="" type="checkbox"/>	ISO 10646 (UCS-2)	<input checked="" type="checkbox"/>
JIS C 6226	<input checked="" type="checkbox"/>	ISO 8859-1	<input checked="" type="checkbox"/>
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