



## BACnet Protocol Implementation Conformance Statement

<b>Date:</b>	9/23/2009	<b>Vendor Name:</b>	Ebtron Inc.
<b>Product Name:</b>	Tri-Stat	<b>Application Software Version:</b>	1.0
<b>Product Model Number:</b>	TRS-0100	<b>Firmware Revision:</b>	1.02
<b>Product Description:</b>	CO2, Rh, and Temperature Measuring Device	<b>BACnet Protocol Revision:</b>	4

### 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)

### BACnet Interoperability Building Blocks Supported (Annex K):

<b>DS-RP-B</b>	<b>DM-DDB-B</b>
<b>DS-WP-B</b>	<b>DM-TS-B</b>
<b>DS-COV-B</b>	<b>DS-UTC-B</b>

### Segmentation Capability:

- Segmented requests supported Window Size \_\_\_\_\_
- Segmented responses supported Window Size \_\_\_\_\_

### Standard Object Types Supported: (See Table 1.)

### 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): 9,600, 19,200, 38,400, 76,800.
- 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: \_\_\_\_\_

### 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, 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



**Character Sets Supported:**

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

- ANSI X3.4                       IBM™/Microsoft™ DBCS                       ISO 8859-1
- ISO 10646 (UCS-2)                       ISO 10646 (UCS-4)                       JIS C 6226

**Gateway:**

This product does not support gateway functionality for any types of non-BACnet equipment/network(s).

TABLE 1 - Standard Object Types Supported						
Object	Create Object Service	Delete Object Service	Optional Properties Supported	Writeable Properties	Proprietary Properties	Property Range Restrictions
Device	No	No	<ul style="list-style-type: none"> <li>• Description</li> <li>• Location</li> <li>• Max Master</li> <li>• Max Info Frames</li> <li>• Active COV Subscriptions</li> <li>• Local Time</li> <li>• Local Date</li> <li>• UTC Offset</li> <li>• Daylight Savings</li> </ul>	<ul style="list-style-type: none"> <li>• APDU Timeout</li> <li>• Description</li> <li>• Location</li> <li>• Max Master</li> <li>• Max Info Frames</li> <li>• Object Identifier</li> <li>• Object Name</li> <li>• UTC Offset</li> <li>• Local Time</li> <li>• Local Data</li> </ul>	None	None
Analog Input 1 – CO2 PPM	No	No	<ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> <li>• COV Increment</li> </ul>	<ul style="list-style-type: none"> <li>• COV Increment</li> <li>• Out of Service</li> <li>• Present Value</li> </ul>	None	None
Analog Input 2 – RH	No	No	<ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> <li>• COV Increment</li> </ul>	<ul style="list-style-type: none"> <li>• COV Increment</li> <li>• Out of Service</li> <li>• Present Value</li> </ul>	None	None
Analog Input 3 – Temperature	No	No	<ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> <li>• COV Increment</li> </ul>	<ul style="list-style-type: none"> <li>• Units</li> <li>• COV Increment</li> <li>• Out of Service</li> <li>• Present Value</li> </ul>	None	Units: °F or °C
Analog Input 4 – Lowest PPM	No	No	<ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> <li>• COV Increment</li> </ul>	<ul style="list-style-type: none"> <li>• Units</li> <li>• COV Increment</li> <li>• Out of Service</li> <li>• Present Value</li> </ul>	None	None
Analog Value 1 – Elevation	No	No	<ul style="list-style-type: none"> <li>• Reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Present Value</li> </ul>	None	0 to 5000, and device not in calibration mode
Analog Value 2 – CO2 Sample Rate	No	No	<ul style="list-style-type: none"> <li>• Reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Present Value</li> </ul>	None	1 to 600
Analog Value 3 – Baudrate	No	No	<ul style="list-style-type: none"> <li>• Reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Present Value</li> </ul>	None	9600, 19200, 38400, 76800
Analog Value 4 – Single Point Cal	No	No	<ul style="list-style-type: none"> <li>• Reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Present Value</li> </ul>	None	0 to 10000, and device not in calibration mode
Analog Value 5 – ABC Logic Status	No	No	<ul style="list-style-type: none"> <li>• Reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Present Value</li> </ul>	None	1 or 2, and device not in calibration mode
Analog Value 6- CO2 Gain	No	No	<ul style="list-style-type: none"> <li>• Reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Present Value</li> </ul>	None	0 to 100
Analog Value 7 – RH Gain	No	No	<ul style="list-style-type: none"> <li>• Reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Present Value</li> </ul>	None	0 to 100

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Thermal Dispersion Airflow Measurement

Analog Value 8 – Temp Gain	No	No	• Reliability	• Present Value	None	0 to 100
Analog Value 9 – CO2 Offset	No	No	• Reliability	• Present Value	None	-10000 to 10000
Analog Value 10 – RH Offset	No	No	• Reliability	• Present Value	None	-100 to 100
Analog Value 11 – Temp Offset	No	No	• Reliability	• Present Value	None	-200 to 200
Binary Value 1 – Factory CO2 Gain/Offset Status	No	No	• Reliability • Active Text • Inactive Text	• Present Value	None	None
Binary Value 2 – Factory RH Gain/Offset Status	No	No	• Reliability • Active Text • Inactive Text	• Present Value	None	None
Binary Value 3 - Factory Temp Gain/Offset Status	No	No	• Reliability • Active Text • Inactive Text	• Present Value	None	None