



## BACnet Protocol Implementation Conformance Statement

|                              |                                            |                                      |              |
|------------------------------|--------------------------------------------|--------------------------------------|--------------|
| <b>Date:</b>                 | 8/14/2025                                  | <b>Vendor Name:</b>                  | Ebtron, Inc. |
| <b>Product Name:</b>         | Hybrid Series HTM116                       | <b>Application Software Version:</b> | 4.33         |
| <b>Product Model Number:</b> | HTM116                                     | <b>Firmware Revision:</b>            | 1.01         |
| <b>Product Description:</b>  | Airflow and Temperature Measurement Device | <b>BACnet Protocol Revision:</b>     | 22           |

### 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>DS-RPM-B</b> |
| <b>DS-WP-B</b>  | <b>DS-WPM-B</b> |
| <b>DS-COV-B</b> | <b>DM-DDB-B</b> |
| <b>DM-DOB-B</b> | <b>DS-DCC-B</b> |
| <b>DM-RD-B</b>  | <b>NM-FDR-A</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)
  - ☒ Option: Register as a 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): \_\_\_\_\_
- ☐ 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.

- |                                                     |                                               |                                     |
|-----------------------------------------------------|-----------------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> ANSI X3.4/UTF-8 | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2)          | <input type="checkbox"/> ISO 10646 (UCS-4)    | <input type="checkbox"/> JIS C 6226 |

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports: \_\_\_\_\_.

**TABLE 1 - Standard Object Types Supported  
(HTM116)**

| Object                            | Create Object Service | Delete Object Service | Optional Properties Supported                                                                                           | Writeable Properties                                                                                                                                            | Proprietary Properties                                                                                                                             | Property Range Restrictions | Special Requirements |
|-----------------------------------|-----------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------|
| Device – HTM116                   | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Location</li> <li>• Active COV Subscriptions</li> </ul> | <ul style="list-style-type: none"> <li>• Object Identifier</li> <li>• Object Name</li> <li>• Description</li> <li>• Location</li> <li>• APDU Timeout</li> </ul> | <ul style="list-style-type: none"> <li>• BBMD Remote Address</li> <li>• BBMD Remote Port</li> <li>• Time To Live</li> <li>• Service Tag</li> </ul> | None                        |                      |
| Analog Input 1 – AMD Airflow      | 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>• Out of Service</li> <li>• COV Increment</li> <li>• Present Value</li> </ul>                           | None                                                                                                                                               | Units: FPM, CFM, MPS, LPS   |                      |
| Analog Input 2 – AMD 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>• Out of Service</li> <li>• COV Increment</li> <li>• Present Value</li> </ul>                           | None                                                                                                                                               | Units: °C or °F             |                      |
| Analog Input 3 – AMD Pressure     | 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>• Out of Service</li> <li>• COV Increment</li> <li>• Present Value</li> </ul>                           | None                                                                                                                                               | Units: iWG or Pa            | -B                   |
| Analog Input 4 – AMD Alarm Status | 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>• Out of Service</li> <li>• Present Value</li> </ul>                                                                     | None                                                                                                                                               | None                        |                      |
| Analog Value 1 – AMD Area         | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                  |                                                                                                                                                                 | None                                                                                                                                               | Units: sq ft or sq m        |                      |
| Analog Value 10 – Traverse Status | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                  | Present Value                                                                                                                                                   | None                                                                                                                                               | Only write 0 - 3            |                      |
| Analog Value 21 – Node 1 Velocity | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                  |                                                                                                                                                                 | None                                                                                                                                               | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 22 – Node 2 Velocity | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                  |                                                                                                                                                                 | None                                                                                                                                               | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 23 – Node 3 Velocity | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                  |                                                                                                                                                                 | None                                                                                                                                               | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 24 – Node 4 Velocity | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                  |                                                                                                                                                                 | None                                                                                                                                               | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 25 – Node 5 Velocity | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                  |                                                                                                                                                                 | None                                                                                                                                               | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 26 – Node 6 Velocity | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                  |                                                                                                                                                                 | None                                                                                                                                               | Units: FPM, MPS             | Enabled in AV 10     |

| Object                                | Create Object Service | Delete Object Service | Optional Properties Supported  | Writeable Properties | Proprietary Properties | Property Range Restrictions | Special Requirements |
|---------------------------------------|-----------------------|-----------------------|--------------------------------|----------------------|------------------------|-----------------------------|----------------------|
| Analog Value 27 – Node 7 Velocity     | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 28 – Node 8 Velocity     | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 29 – Node 9 Velocity     | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 30 – Node 10 Velocity    | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 31 – Node 11 Velocity    | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 32 – Node 12 Velocity    | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 33 – Node 13 Velocity    | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 34 – Node 14 Velocity    | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 35 – Node 15 Velocity    | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 36 – Node 16 Velocity    | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: FPM, MPS             | Enabled in AV 10     |
| Analog Value 41 – Node 1 Temperature  | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 42 – Node 2 Temperature  | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 43 – Node 3 Temperature  | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 44 – Node 4 Temperature  | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 45 – Node 5 Temperature  | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 46 – Node 6 Temperature  | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 47 – Node 7 Temperature  | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 48 – Node 8 Temperature  | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 49 – Node 9 Temperature  | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 50 – Node 10 Temperature | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 51 – Node 11 Temperature | No                    | No                    | • Description<br>• Reliability |                      | None                   | Units: °C or °F             | Enabled in AV 10     |



Thermal Dispersion Airflow Measurement

| Object                                | Create Object Service | Delete Object Service | Optional Properties Supported                                                                                                                                                                                                                                                                                                                                                                                                                      | Writeable Properties                                                                                                                                      | Proprietary Properties | Property Range Restrictions | Special Requirements |
|---------------------------------------|-----------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|----------------------|
| Analog Value 52 – Node 12 Temperature | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                           | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 53 – Node 13 Temperature | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                           | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 54 – Node 14 Temperature | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                           | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 55 – Node 15 Temperature | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                           | None                   | Units: °C or °F             | Enabled in AV 10     |
| Analog Value 56 – Node 16 Temperature | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Reliability</li> </ul>                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                           | None                   | Units: °C or °F             | Enabled in AV 10     |
| Network Port 1                        | No                    | No                    | <ul style="list-style-type: none"> <li>• Description</li> <li>• Network Number</li> <li>• Network Number Quality</li> <li>• Mac Address</li> <li>• APDU Length</li> <li>• BACnet IP Mode</li> <li>• IP Address</li> <li>• IP UDP Port</li> <li>• IP Subnet Mask</li> <li>• IP Default Gateway</li> <li>• IP DNS Server</li> <li>• IP DHCP Enable</li> <li>• Foreign Device BBMD Address</li> <li>• Foreign Device Subscription Lifetime</li> </ul> | <ul style="list-style-type: none"> <li>• BACnet IP Mode</li> <li>• Foreign Device BBMD Address</li> <li>• Foreign Device Subscription Lifetime</li> </ul> | None                   | None                        | None                 |