Thermal Dispersion Airflow Measurement

BACnet Protocol Implementation Conformance Statement

Date:	2/14/2024	**Vendor Name:**	Ebtron, Inc.
Product Name:	Gold Series GTC116e	**Application Software Version:**	1.00
Product Model Number:	GTC116e	**Firmware Revision:**	8.33
Product Description:	Airflow and Temperature Measurement Device with Integral Relative Humidity	**BACnet Protocol Revision:**	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):

DS-RP-B	**DS-RPM-B**
DS-WP-B	**DS-WPM-B**
DS-COV-B	**DM-DDB-B**
DM-DOB-B	**DS-DCC-B**
DM-RD-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)
- ☐ 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): 76,800 38,400 19,200 9,600
- ☐ 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

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

■ ANSI X3.4/UTF-8 □ IBM™/Microsoft™ DBCS □ ISO 8859-1
□ ISO 10646 (UCS-2) □ ISO 10646 (UCS-4) □ JIS C 6226

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

TABLE 2 - Standard Object Types Supported (GTC116e)

Object	Create Object Service	Delete Object Service	Optional Properties Supported	Writeable Properties	Proprietary Properties	Property Range Restrictions	Special Requirements
Device – GTC116e	No	No	• Description • Location • Active COV Subscriptions	• Object Identifier • Object Name • Description • Location • APDU Timeout	•BBMD Remote Address • BBMD Remote Port • Time To Live • Service Tag	None	
Analog Input 1 – AMD Airflow	No	No	• Description • Reliability • COV Increment	• Units • Out of Service • COV Increment • Present Value	None	Units: FPM, CFM, MPS, LPS	
Analog Input 2 – AMD Temperature	No	No	• Description • Reliability • COV Increment	• Units • Out of Service • COV Increment • Present Value	None	Units: °C or °F	
Analog Input 3 – AMD Pressure	No	No	• Description • Reliability • COV Increment	• Units • Out of Service • COV Increment • Present Value	None	Units: iWG or Pa	-B
Analog Input 4 – AMD Alarm Status	No	No	• Description • Reliability • COV Increment	• Out of Service • Present Value	None	None	
Analog Input 21 – RH	No	No	• Description • Reliability • COV Increment	• Out of Service • COV Increment • Present Value	None		-P w/H
Analog Input 22 – Dew Point	No	No	• Description • Reliability • COV Increment	• Units • Out of Service • COV Increment • Present Value	None	Units: °C or °F	-P w/H
Analog Input 23 – Enthalpy	No	No	• Description • Reliability • COV Increment	• Units • Out of Service • COV Increment • Present Value	None	Units: Btu/lb or kJ/kg	-P w/H
Analog Value 1 – AMD Area	No	No	• Description • Reliability		None	Units: sq ft or sq m	
Analog Value 10 – Traverse Status	No	No	• Description • Reliability	Present Value	None	Only write 0 - 3	

Object	Create Object Service	Delete Object Service	Optional Properties Supported	Writeable Properties	Proprietary Properties	Property Range Restrictions	Special Requirements
Analog Value 21 – Node 1 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 22 – Node 2 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 23 – Node 3 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 24 – Node 4 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 25 – Node 5 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 26 – Node 6 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 27 – Node 7 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 28 – Node 8 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 29 – Node 9 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 30 – Node 10 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 31 – Node 11 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 32 – Node 12 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 33 – Node 13 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 34 – Node 14 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 35 – Node 15 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 36 – Node 16 Velocity	No	No	• Description • Reliability		None	Units: FPM, MPS	Enabled in AV 10
Analog Value 41 – Node 1 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 42 – Node 2 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 43 – Node 3 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 44 – Node 4 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 45 – Node 5 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 46 – Node 6 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 47 – Node 7 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	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 48 – Node 8 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 49 – Node 9 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 50 – Node 10 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 51 – Node 11 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 52 – Node 12 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 53 – Node 13 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 54 – Node 14 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 55 – Node 15 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 56 – Node 16 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Network Port 1	No	No	• Description • Network Number • Network Number Quality • Mac Address • APDU Length • Max Master • Max Info Frames	• Max Master • Max Info Frames	None	None	None