



BACnet Protocol Implementation Conformance Statement

Date:	2/14/2024	Vendor Name:	Ebtron, Inc.
Product Name:	Gold Series GTM116e	Application Software Version:	4.17
Product Model Number:	GTM116e	Firmware Revision:	8.28
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	NM-FDR-A

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.

- 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
(GTM116e)**

Object	Create Object Service	Delete Object Service	Optional Properties Supported	Writeable Properties	Proprietary Properties	Property Range Restrictions	Special Requirements
Device – GTM116e	No	No	<ul style="list-style-type: none"> • Description • Location • Active COV Subscriptions 	<ul style="list-style-type: none"> • Object Identifier • Object Name • Description • Location • APDU Timeout 	<ul style="list-style-type: none"> • BBMD Remote Address • BBMD Remote Port • Time To Live • Service Tag 	None	
Analog Input 1 – AMD Airflow	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • Units • Out of Service • COV Increment • Present Value 	None	Units: FPM, CFM, MPS, LPS	
Analog Input 2 – AMD Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • Units • Out of Service • COV Increment • Present Value 	None	Units: °C or °F	
Analog Input 3 – AMD Pressure	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • Units • Out of Service • COV Increment • Present Value 	None	Units: iWG or Pa	-B
Analog Input 4 – AMD Alarm Status	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • Out of Service • Present Value 	None	None	
Analog Input 21 – RH	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • Out of Service • COV Increment • Present Value 	None		-P w/H
Analog Input 22 – Dew Point	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • Units • Out of Service • COV Increment • Present Value 	None	Units: °C or °F	-P w/H
Analog Input 23 – Enthalpy	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: sq ft or sq m	
Analog Value 10 – Traverse Status	No	No	<ul style="list-style-type: none"> • Description • Reliability 	Present Value	None	Only write 0 - 3	
Analog Value 21 – Node 1 Velocity	No	No	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: FPM, MPS	Enabled in AV 10

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Object	Create Object Service	Delete Object Service	Optional Properties Supported	Writeable Properties	Proprietary Properties	Property Range Restrictions	Special Requirements
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

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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	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: °C or °F	Enabled in AV 10
Analog Value 49 – Node 9 Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: °C or °F	Enabled in AV 10
Analog Value 50 – Node 10 Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: °C or °F	Enabled in AV 10
Analog Value 51 – Node 11 Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: °C or °F	Enabled in AV 10
Analog Value 52 – Node 12 Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: °C or °F	Enabled in AV 10
Analog Value 53 – Node 13 Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: °C or °F	Enabled in AV 10
Analog Value 54 – Node 14 Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: °C or °F	Enabled in AV 10
Analog Value 55 – Node 15 Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: °C or °F	Enabled in AV 10
Analog Value 56 – Node 16 Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability 		None	Units: °C or °F	Enabled in AV 10
Network Port 1	No	No	<ul style="list-style-type: none"> • Description • Network Number • Network Number Quality • Mac Address • APDU Length • BACnet IP Mode • IP Address • IP UDP Port • IP Subnet Mask • IP Default Gateway • IP DNS Server • IP DHCP Enable • Foreign Device BBMD Address • Foreign Device Subscription Lifetime 	<ul style="list-style-type: none"> • BACnet IP Mode • Foreign Device BBMD Address • Foreign Device Subscription Lifetime 	None	None	None