



EBTRON GTC108e Fan Array Airflow Monitors Owner's Manual

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BACnet Protocol Implementation Conformance Statement

Date: 2/14/2024	Vendor Name: Ebtron, Inc.
Product Name: Gold Series GTC108e	Application Software Version: 1.00
Product Model Number: GTC108e	Firmware Revision: 8.33
Product Description: Airflow and Temperature Measurement Device	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

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 tm/Microsoft tm 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 1 – Standard Object Types Supported (GTC108e)							
Object	Create Object Service	Delete Object Service	Optional Properties Supported	Writeable Properties	Proprietary Properties	Property Range Restrictions	Special Requirements
Device – GTC108e	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	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	None

Analog Input 2 – AMD Temperature	No	No	• Description • Reliability • COV Increment	• Units • Out of Service • COV Increment • Present Value	None	Units: °C or °F	None
Analog Input 4 – AMD Alarm Status	No	No	• Description • Reliability • COV Increment	• Out of Service • Present Value	None	None	None
Analog Input 5 – AMD Fan Alarm Status	No	No	• Description • Reliability • COV Increment	• Out of Service • Present Value	None	None	Fan Array
Analog Value 1 – AMD Area	No	No	• Description • Reliability		None	Units: sq ft or sq m	Fan Array
Analog Value 2 – Fan 1 Area	No	No	• Description		None	Units: sq ft or sq m	Fan Array
Analog Value 3 – Fan 2 Area	No	No	• Description		None	Units: sq ft or sq m	Fan Array
Analog Value 4 – Fan 3 Area	No	No	• Description		None	Units: sq ft or sq m	Fan Array
Analog Value 5 – Fan 4 Area	No	No	• Description		None	Units: sq ft or sq m	Fan Array

Analog Value 6 – Fan 5 Area	No	No	• Descriptio n		None	Units: sq ft or s q m	Fan Array
Analog Value 7 – Fan 6 Area	No	No	• Descriptio n		None	Units: sq ft or s q m	Fan Array
Analog Value 8 – Fan 7 Area	No	No	• Descriptio n		None	Units: sq ft or s q m	Fan Array

Object	Cre ate Ob ject S ervice	Dele te Ob ject S ervice	Optional Pr operties Su pported	Writeable Pr operties	Proprietary Pr operties	Property Ran ge Restriction s	Special R equireme nts
Analog Value 9 – Fan 8 Area	No	No	• Descriptio n		None	Units: sq ft or s q m	Fan Array
Analog Value 1 0 – Traverse St atus	No	No	• Descriptio n • Reliability	Present Value	None	Only write 0 – 3	None
Analog Value 2 1 – Node 1 Vel ocity	No	No	• Descriptio n • Reliability		None	Units: FPM, M PS	Enabled i n AV 10
Analog Value 2 2 – Node 2 Vel ocity	No	No	• Descriptio n • Reliability		None	Units: FPM, M PS	Enabled i n AV 10
Analog Value 2 3 – Node 3 Vel ocity	No	No	• Descriptio n • Reliability		None	Units: FPM, M PS	Enabled i n AV 10
Analog Value 2 4 – Node 4 Vel ocity	No	No	• Descriptio n • Reliability		None	Units: FPM, M PS	Enabled i n 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 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
Analog Value 48 – Node 8 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Enabled in AV 10
Analog Value 101 – Fan 1 Flow	No	No	• Description • Reliability		None	Units: FPM, CFM, MPS, LPS	Fan Array
Analog Value 102 – Fan 2 Flow	No	No	• Description • Reliability		None	Units: FPM, CFM, MPS, LPS	Fan Array
Analog Value 103 – Fan 3 Flow	No	No	• Description • Reliability		None	Units: FPM, CFM, MPS, LPS	Fan Array
Analog Value 104 – Fan 4 Flow	No	No	• Description • Reliability		None	Units: FPM, CFM, MPS, LPS	Fan Array
Analog Value 105 – Fan 5 Flow	No	No	• Description • Reliability		None	Units: FPM, CFM, MPS, LPS	Fan Array

Object	Create Object Service	Delete Object Service	Optional Properties Supported	Writeable Properties	Proprietary Properties	Property Range Restrictions	Special Requirements
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Analog Value 106 – Fan 6 Flow	No	No	• Description • Reliability		None	Units: FPM, CFM, MPS, LPS	Fan Array
Analog Value 107 – Fan 7 Flow	No	No	• Description • Reliability		None	Units: FPM, CFM, MPS, LPS	Fan Array
Analog Value 108 – Fan 8 Flow	No	No	• Description • Reliability		None	Units: FPM, CFM, MPS, LPS	Fan Array
Analog Value 111 – Fan 1 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Fan Array
Analog Value 112 – Fan 2 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Fan Array
Analog Value 113 – Fan 3 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Fan Array
Analog Value 114 – Fan 4 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Fan Array
Analog Value 115 – Fan 5 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Fan Array
Analog Value 116 – Fan 6 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Fan Array

Analog Value 17 – Fan 7 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Fan Array
Analog Value 18 – Fan 8 Temperature	No	No	• Description • Reliability		None	Units: °C or °F	Fan Array
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

Customers Support

EBTRON Inc. 1663 Hwy. 701 S., Loris SC 29569

Toll Free: 800.2EBTRON (800.232.8766)

Fax: 843.756.1838

Internet: www.EBTRON.com



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References

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