EBTRON®
Thermal Dispersion Airflow Measurement

Date:	7/7/2010	**Vendor Name:**	Ebtron Inc.
Product Name:	IAQ-100	**Application Software Version:**	1.0
Product Model Number:	400-5300	**Firmware Revision:**	1.03
Product Description:	CO2 Measuring Device	**BACnet Protocol Revision:**	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):

DS-RP-B	**DM-DDB-B**
DS-WP-B	**DM-TS-B**
DS-COV-B	**DS-UTC-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

EBTRON Inc. 1663 Hwy. 701 S., Loris SC 29569 • Toll Free: 800.2EBTRON (800.232.8766) • Fax: 843.756.1838 • Internet: www.EBTRON.com

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	• Description • Location • Max Master • Max Info Frames • Active COV Subscriptions • Local Time • Local Date • UTC Offset • Daylight Savings	• APDU Timeout • Description • Location • Max Master • Max Info Frames • Object Identifier • Object Name • UTC Offset • Local Time • Local Data	None	None
Analog Input 1 – CO2 PPM	No	No	• Description • Reliability • COV Increment	• COV Increment • Out of Service • Present Value	None	None
Analog Input 2 – Lowest PPM	No	No	• Description • Reliability • COV Increment	• Units • COV Increment • Out of Service • Present Value	None	None
Analog Value 1 – Elevation	No	No	• Reliability	• Present Value	None	0 to 5000, and device not in calibration mode
Analog Value 2 – CO2 Sample Rate	No	No	• Reliability	• Present Value	None	1 to 600
Analog Value 3 – Baudrate	No	No	• Reliability	• Present Value	None	9600, 19200, 38400, 76800
Analog Value 4 – Single Point Cal	No	No	• Reliability	• Present Value	None	0 to 10000, and device not in calibration mode
Analog Value 5 – ABC Logic Status	No	No	• Reliability	• Present Value	None	1 or 2, and device not in calibration mode
Analog Value 6- CO2 Gain	No	No	• Reliability	• Present Value	None	0 to 100
Analog Value 7 – CO2 Offset	No	No	• Reliability	• Present Value	None	-10000 to 10000
Binary Value 1 – Factory CO2 Gain/Offset Status	No	No	• Reliability • Active Text • Inactive Text	• Present Value	None	None