



Date:	7/7/2010	Vendor Name:	Ebtron Inc.
Product Name:	IAQ-300	Application Software Version:	1.0
Product Model Number:	400-5300	Firmware Revision:	1.03
Product Description:	CO2, RH, and Temperature 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

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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 | <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 |

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	<ul style="list-style-type: none"> • Description • Location • Max Master • Max Info Frames • Active COV Subscriptions • Local Time • Local Date • UTC Offset • Daylight Savings 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • COV Increment • Out of Service • Present Value 	None	None
Analog Input 2 – RH	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • COV Increment • Out of Service • Present Value 	None	None
Analog Input 3 – Temperature	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • Units • COV Increment • Out of Service • Present Value 	None	Units: °F or °C
Analog Input 4 – Lowest PPM	No	No	<ul style="list-style-type: none"> • Description • Reliability • COV Increment 	<ul style="list-style-type: none"> • Units • COV Increment • Out of Service • Present Value 	None	None
Analog Value 1 – Elevation	No	No	<ul style="list-style-type: none"> • Reliability 	<ul style="list-style-type: none"> • Present Value 	None	0 to 5000, and device not in calibration mode
Analog Value 2 – CO2 Sample Rate	No	No	<ul style="list-style-type: none"> • Reliability 	<ul style="list-style-type: none"> • Present Value 	None	1 to 600
Analog Value 3 – Baudrate	No	No	<ul style="list-style-type: none"> • Reliability 	<ul style="list-style-type: none"> • Present Value 	None	9600, 19200, 38400, 76800
Analog Value 4 – Single Point Cal	No	No	<ul style="list-style-type: none"> • Reliability 	<ul style="list-style-type: none"> • Present Value 	None	0 to 10000, and device not in calibration mode
Analog Value 5 – ABC Logic Status	No	No	<ul style="list-style-type: none"> • Reliability 	<ul style="list-style-type: none"> • Present Value 	None	1 or 2, and device not in calibration mode
Analog Value 6- CO2 Gain	No	No	<ul style="list-style-type: none"> • Reliability 	<ul style="list-style-type: none"> • Present Value 	None	0 to 100
Analog Value 7 – RH Gain	No	No	<ul style="list-style-type: none"> • Reliability 	<ul style="list-style-type: none"> • Present Value 	None	0 to 100

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Thermal Dispersion Airflow Measurement

Analog Value 8 – Temp Gain	No	No	• Reliability	• Present Value	None	0 to 100
Analog Value 9 – CO2 Offset	No	No	• Reliability	• Present Value	None	-10000 to 10000
Analog Value 10 – RH Offset	No	No	• Reliability	• Present Value	None	-100 to 100
Analog Value 11 – Temp Offset	No	No	• Reliability	• Present Value	None	-200 to 200
Binary Value 1 – Factory CO2 Gain/Offset Status	No	No	• Reliability • Active Text • Inactive Text	• Present Value	None	None
Binary Value 2 – Factory RH Gain/Offset Status	No	No	• Reliability • Active Text • Inactive Text	• Present Value	None	None
Binary Value 3 - Factory Temp Gain/Offset Status	No	No	• Reliability • Active Text • Inactive Text	• Present Value	None	None