

Protocol Implementation Conformance Statement (Normative)

# BACnet Protocol Implementation Conformance Statement



**BAC-8XXX**  
Application Specific Controller

**BACnet Protocol Implementation Conformance Statement  
(BACnet Testing Laboratories Version)**

**Date:** 09-14-11

**Vendor Name:** KMC Controls

**Product Name:** ASC for Titus VAV

**Product Model Number:** BAC-8XXX

**Applications Software Version:** APP1.0.7.0

**Firmware Revision:** R1.0.0.5

**BACnet Protocol Revision:** 135-2008 Version:1, Revision:7

**Product Description:**

The BAC-8XXX is an application specific direct digital control actuator (B-ASC) that provides precise monitoring and control of connected points . Model specific I/O:

BAC-8001, BAC-8201: Single Duct Cooling only

Inputs: Discharge Air Temp, Space Temp, Setpoint, and Air Flow.

Binary Outputs: Actuator Drive Clockwise and Actuator Drive Counter Clockwise,

BAC-8005, BAC-8205: Single Duct with Cooling/Heating

Inputs: Discharge Air Temp, Space Temp, Setpoint, and Air Flow.

Analog Outputs: Analog Heat and Fan Speed.

Binary Outputs: Actuator Drive Clockwise and Actuator Drive Counter Clockwise,  
Fan Start/Stop, Heating Stage 1, Heating Stage 2 and Heating Stage 3.

BAC-8007, BAC-8207: Dual Duct with Cooling and Heating,

Inputs: Discharge Air Temp, Space Temp, Setpoint, Primary Air Flow, Secondary Air Flow,  
Primary Damper, Position, Secondary Damper position and CO2.

Analog Outputs: Analog Heat and Fan Speed.

Binary Outputs: Actuator Drive Clockwise and Actuator Drive Counter Clockwise,  
Fan Start/Stop, Secondary Actuator Clockwise, Secondary Actuator Counter  
Clockwise and Heating Stage/Lighting.

**List all BACnet Interoperability Building Blocks supported (see Annex K in BACnet 2001):**

DS-RP-A, DS-RP-B, DS-RPM-B, DS-WP-A, DS-WP-B, DS-WPM-B, DM-DDB-A, DM-DDB-B,  
DM-DCC-B, DM-DOB-B, DM-TS-B, DM-RD-B

**Which of the following device binding methods does the product support? (check one or more)**

- Send Who-Is, receive I-Am (BIBB DM-DDB-A)
- Receive Who-Is, send I-Am (BIBB DM-DDB-B)
- Send Who-Has, receive I-Have (BIBB DM-DOB-A)
- Receive Who-Has, send I-Have (BIBB DM-DOB-B)
- Manual configuration of recipient device's network number and MAC address
- None of the above

**Standard Object Types Supported:**

OBJECT	CREATABLE	DELETABLE	OPTIONAL PROPERTIES
Analog Input	No	No	Description, Device_Type
Analog Output	No	No	Description, Device_Type

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Analog value	No	No	Description, Priority_Array, Relinquish_Default
Binary Output	No	No	Active_Text, Description, Device_Type, Inactive_Text
Binary Value	No	No	Active_Text, Description, Inactive_Text, Priority_Array, Relinquish_Default
Loop	No	No	Bias, Derivative_Constant, Derivative_Constant_Units, Description, Integral_Constant, Integral_Constant_Units, Maximum_Output, Minimum_Output, Proportional_Constant, Proportional_Constant_Units
Program	No	No	Description, Description_Of_Halt, Program_Location, Reason_For_Halt
File	No	No	Description
Device	No	No	<b>Description, Local_Date, Local_Time, Location, Max_Info_Frames, Max_Master,</b>
Multi-State Value	No	No	<b>Description, Priority_Array, Relinquish_Default, State_Text,</b>

**Data Link Layer Options (check all that are supported):**

- BACnet IP, (Annex J)
  - Able to 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): 9600, 19200, 38400, 76800
- MS/TP slave (Clause 9), baud rate(s): 9600, 19200, 38400, 76800
- Point-To-Point, EIA 232 (Clause 10), baud rate(s): \_\_\_\_\_
- Point-To-Point, modem, (Clause 10), baud rate(s): \_\_\_\_\_
- LonTalk, (Clause 11), medium: \_\_\_\_\_
- Other: \_\_\_\_\_

**Networking Options (check all that are supported):**

- Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.: \_\_\_\_\_
- Annex H.3, BACnet Tunneling Router over UDP/IP
- BACnet/IP Broadcast Management Device (BBMD)
  - Does the BBMD support registrations by Foreign Devices?  Yes  No

**Segmentation Capability (check all that apply):**

- Able to transmit segmented messages                      Window Size \_\_\_\_\_
- Able to receive segmented messages                      Window Size \_\_\_\_\_

**Character Sets Supported (check all that apply):**

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 (ICS-4)                       JIS C 6226

**If this product is a communication gateway, describe the non-BACnet equipment/network(s) that the gateway supports:**

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**Include any addition information about the product's BACnet capabilities relevant to interoperability:**

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