

**Protocol Implementation Conformance Statement (Normative)**

**BACnet Protocol Implementation Conformance Statement**

**For the BAC-7001  
BACnet VAV Controller**



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

**Date:** 4/30/05

**Vendor Name:** KMC Controls

**Product Name:** BACnet VAV Controller

**Product Model Number:** BAC-7001

**Applications Software Version:** N/A

**Firmware Revision:** BAC57 R1.4.0.5

**BACnet Protocol Revision:** 135-2001 (1)

**Product Description:**

The BAC-7001 is a programmable direct digital controller with actuator that provides precise monitoring and control of connected points. The BAC-7001 provides 3 universal inputs and 3 universal outputs configurable as analog or binary (digital). One additional input is dedicated to an air flow sensor and one additional output is dedicated to the actuator.

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

AE-ACK-B, AE-ASUM-B, AE-INFO-B, AE-N-I-B, DM-DCC-B, DM-DDB-A, DM-DDB-B, DM-DOB-B, DM-RD-B, DM-TS-B, DS-RP-A, DS-RP-B, DS-RPM-B, DS-WP-A, DS-WP-B, DS-WPM-B, SCHED-I-B, T-VMT-I-B, T-ATR-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

BTL Product Testing and Listing Program Application Form

**Standard Object Types Supported:**

<b>OBJECT</b>	<b>CREATABLE</b>	<b>DELETABLE</b>	<b>OPTIONAL PROPERTIES</b>
Analog Input	No	No	Acked_Transitions, Deadband, Description, Device_Type, Event_Enable, Event_Time_Stamp, High_Limit, Limit_Enable, Low_Limit, Notification_Class, Notify_Type and Time_Delay
Analog Output	No	No	Acked_Transitions, Deadband, Description, Device_Type, Event_Enable, Event_Time_Stamp, High_Limit, Limit_Enable, Low_Limit, Notification_Class, Notify_Type and Time_Delay
Analog value	No	No	Acked_Transitions, Deadband, Description, Event_Enable, Event_Time_Stamp, High_Limit, Limit_Enable, Low_Limit, Notification_Class, Notify_Type, Priority_Array, Relinquish_Default, and Time_Delay
Binary Input	No	No	Acked_Transitions, Active_Text, Alarm_Value, Description, Device_Type, Event_Enable, Event_Time_Stamp, Inactive_Text, Notification_Class, Notify_Type and Time_Delay
Binary Output	No	No	Acked_Transitions, Active_Text, Description, Device_Type, Event_Enable, Event_Time_Stamp, Feedback_Value, Inactive_Text, Notification_Class, Notify_Type and Time_Delay
Binary Value	No	No	Acked_Transitions, Active_Text, Alarm_Value, Description, Event_Enable, Event_Time_Stamp, Inactive_Text, Notification_Class, Notify_Type, Priority_Array, Relinquish Default, and Time_Delay
Calendar	No	No	Description
Device	No	No	Description, Local_Date, Local_Time, Location Max_Master, Max_Info_Frames
File	No	No	Description
Loop	No	No	Acked_Transitions, Bias, Derivative_Constant, Derivative_Constant_Units, Description, Error_Limit, Event_Enable, Event_Time_Stamps, Integral_Constant, Integral_Constant_Units, Notification_Class, Notify_Type, Proportional_Constant, Proportional_Constant_Units, and Time_Delay
Notification	No	No	Description
Program	No	No	Description, Description_Of_Halt, Program_Location, Reason_For_Halt
Schedule	No	No	Description, Exception_Schedule, Weekly_Schedule
Trend	No	No	Acked_Transitions, Description, Event_Enable, Event_Time_Stamps, Last_Notify_Record, Log_DeviceObjectProperty, Log_Interval, Notification_Class, Notification_Threshold, Notify_Type, Records_Since_Notification, Start_Time, and Stop_Time

**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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