

## Viconics' VT7600 Series Programmable & Non-Programmable Thermostats for Commercial HVAC Applications





VT7600 SERIES

PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (PICS)

LAST REVISION: NOVEMBER 4, 2009

Vendor Name: Viconics

Product Name: VT7600 Series

Product Model Number: VT7656B5x00B, VT7652B5x00B,

VT7652H5x00B, VT7652A5x00B, VT7605B5x00B, VT7600H5x00B, VT7600A5x00B. VT7607B5x00B, VT7657B5x00B

**Product Version:** 3.5.04

**BACnet Protocol Revision:** 2 (135-2001)

#### **Product Description**

The VT7600 PI thermostat family is specifically designed for single stage and multi-stage control of heating/cooling equipment such as rooftop and self-contained units. The product features an intuitive, menu-driven, back-lit LCD display which walks users through the programming steps, making the process extremely simple. Accurate temperature control is achieved due to the product's PI time proportional control algorithm, which virtually eliminates temperature offset associated with traditional, differential-based thermostats.

#### **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)



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### **BACnet Interoperability Building Blocks Supported (Annex K):**

BACnet Interoperability Building Block	Supported
Data Sharing-ReadProperty-B (DS-RP-B)	Ø
Data Sharing-ReadPropertyMultiple-B (DS-RPM-B)	Ø
Data Sharing-WriteProperty-B (DS-WP-B)	Ø
Device Management-Dynamic Device Binding-B (DM-DDB-B)	Ø
Device Management-Dynamic Object Binding-B (DM-DOB-B)	Ø
Device Management-DeviceCommunicationControl-B (DM-DCC-B)	Ø

Segmentation	Capability:
	-apaziii.

Segmented Requests Supported	Window Size:	N/A
Segmented Responses Supported	Window Size:	N/A

#### **Standard Object Types Supported:**

Object Type	Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Analog Input	$\square$			Reliability	Out_of_Service
Analog Value	Ø			Reliability	Present_Value <sup>a</sup> Out_of_Service <sup>a</sup> Object_Name <sup>b</sup>
Binary Input	Ø			Reliability Active_Text Inactive_Text	Out_of_Service
Binary Value	Ø			Reliability Active_Text Inactive_Text	Present_Value Out_of_Service
Device	Ø			Max_Master Max_Info_frames	Object_Identifier Object_Name Max_Master
Group	$\square$			N/A	N/A
Multi-state Value	Ø			Reliability States_Text	Present_Value Out_of_Service
Schedule	Ø			Weekly_schedule	Present_Value Weekly_Schedule

- a: Present\_Value and Out\_of\_Service properties are writable for every AV objects except :

  - PI Heating Demand (AV20)PI Cooling Demand (AV21)
  - Economizer Output (AV23)
- b: Object\_Name property is writable for 2 objects only :
  - Room\_Temperature (AV7)



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<b>Data Link Layer Options:</b>				
□ BACnet IP, (Annex J) □ BACnet IP, (Annex J), Foreign Devi □ ISO 8802-3, Ethernet (Clause 7) (10 □ ANSI/ATA 878.1, 2.5 Mb. ARCNET □ ANSI/ATA 878.1, RS-485 ARCNET □ MS/TP master (Clause 9), baud rate □ MS/TP slave (Clause 9), baud rate( □ Point-To-Point, EIA 232 (Clause 10 □ Point-To-Point, modem, (Clause 10 □ LonTalk, (Clause 11), medium: □ Other:	0Base2, 10Base (Clause 8) (Clause 8), bau e(s): 9600, 1920 s): ), baud rate(s):	d rate(s):	to Baud)	
Device Address Binding:				
Is static device binding supported? (Necessary for two-way communication		s ☑ No aves and certain othe	er devices.)	
Networking Options:				
Router		N/A		
Annex H, BACnet Tunnelling		N/A		
BACnet/IP Broadcast Management Device (BBMD)		N/A		
Does the BBMD support registratio Devices?	ns by Foreign	N/A		
Character Sets Supported	d:			
	□ IBM/Microsof □ ISO 10646 (U		☐ JIS C 6226 ☐ ISO 8859-1	

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

Not applicable.