

VT7600 SERIES

BACnet, Echelon, and Wireless
Models Available



VT7600A5000

The VT7600 Series PI thermostat family provides single stage and multi-stage control of heating/cooling equipment, including rooftop and self-contained units. The product features an intuitive, menu-driven, back-lit LCD display that walks users through the simple programming procedure, making installation extremely simple.

All models contain two user-controlled digital inputs that monitor filter status, change the occupancy status, and/or provide general purpose service indication. Some models offer up to three remote sensor inputs. All models contain a discharge air sensor input and SPST auxiliary switch, which can be used to control lighting or disable the economizer function. All devices are available with Echelon, BACnet, or wireless adapters.

SPECIFICATIONS

Thermostat Power Requirements	19 to 30 Vac; 50 or 60 Hz; 2 VA Class 2
Operating Conditions	0 to 50 °C (32 to 122 °F); 0 to 95% RH non-condensing
Storage Conditions	-30 to 50 °C (-22 to 122 °F); 0 to 95% RH non-condensing
Temperature Sensor	Local 10k NTC thermistor
Resolution	± 0.1 °C (± 0.2 °F)
Control Accuracy	Temp: ±0.5 °C (±0.9 °F) @ 21 °C (70 °F) typical calibrated
Occupied and Unoccupied Setpoint Range Cooling	12 to 37.5 °C (54 to 100 °F)
Occupied and Unoccupied Setpoint Range Heating	4.5 to 32 °C (40 to 90 °F)
Room and Outdoor Air Temperature Display	-40 to 50 °C (-40 to 122 °F)
Proportional Band for Room Temperature Range Control	Cooling & Heating: 1.8 °C (3.2 °F)

PI time proportioning

PI time proportioning algorithm for increased comfort, accuracy, and energy savings

Local configuration

Unique local configuration utility minimizes parameter tampering

Two digital inputs

Two digital inputs for added functionality

Lockable keypad

Tamper resistant, no need for thermostat guards

Smart fan

Saves energy during night mode

Freeze protection

Limits costly freeze damage

APPLICATIONS

- Single-speed fans
- Outdoor air temperature sensor
- Supply air temperature sensor
- Differential pressure switch sensor

Binary Inputs	BI2 and UI3 to Scm
Output Rating	30 Vac, 1 A max., 3 A in-rush
Economizer Analog Output Rating	0 to 10 Vdc into 2k Ω resistance min.
Economizer Analog Output Accuracy	±3% typical
Wire Gauge	18 gauge maximum, 22 gauge recommended
Dimensions	4.94" x 3.38" x 1.13" (12.5 x 86 x 30 mm)
Approximate Shipping Weight	0.75 lb (0.34 kg)

WARRANTY

Limited Warranty	2 years
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AGENCY APPROVALS



*The CE mark indicates RoHS2 compliance.

UL: 873 (US) and CSA C22.2 No. 24 (Canada), File E27734 with CCN, XAPX (US) and XAPX7 (Canada)

FCC: Compliant to CFR 47, Part 15, Subpart B, Class A (US)

Industry Canada: ICES-003 (Canada)

CE: EMC Directive 2004/108/EMC (European Union).

C-Tick: AS/NZS CISPR 22 Compliant (Australia / New Zealand); Supplier Code Number N10696



ORDERING INFORMATION

MANUF. PART #	ORDERING #	DESCRIPTION	COMM.
VT7600A5000	U010-0001	1H/1C thermostat, non-programmable; PIR Ready (PIR cover not included)	Standalone
VT7600A5000B	U010-0002		BACnet (MS/TP)
VT7600A5000E	U010-0003		Echelon
VT7600A5000W	U010-0004		Wireless (Zigbee)
VT7600B5000	U010-0005	2H/2C thermostat, non-programmable; PIR Ready (PIR cover not included)	Standalone
VT7600B5000B	U010-0006		BACnet (MS/TP)
VT7600B5000E	U010-0007		Echelon
VT7600B5000W	U010-0008		Wireless (Zigbee)
VT7652A5000	U010-0009	1H/1C thermostat, programmable; PIR Ready (PIR cover not included)	Standalone
VT7652A5000B	U010-0010		BACnet (MS/TP)
VT7652A5000E	U010-0011		Echelon
VT7652A5000W	U010-0012		Wireless (Zigbee)
VT7652B5000	U010-0013	2H/2C thermostat, programmable; PIR Ready (PIR cover not included)	Standalone
VT7652B5000B	U010-0014		BACnet (MS/TP)
VT7652B5000E	U010-0015		Echelon
VT7652B5000W	U010-0016		Wireless (Zigbee)
VT7600A5500	U010-0017	1H/1C thermostat, non-programmable; PIR factory equipped	Standalone
VT7600A5500B	U010-0018		BACnet (MS/TP)
VT7600A5500E	U010-0019		Echelon
VT7600A5500W	U010-0020		Wireless (Zigbee)
VT7600B5500	U010-0021	2H/2C thermostat, non-programmable; PIR factory equipped	Standalone
VT7600B5500B	U010-0022		BACnet (MS/TP)
VT7600B5500E	U010-0023		Echelon
VT7600B5500W	U010-0024		Wireless (Zigbee)
VT7652A5500	U010-0025	1H/1C thermostat, programmable; PIR factory equipped	Standalone
VT7652A5500B	U010-0026		BACnet (MS/TP)
VT7652A5500E	U010-0027		Echelon
VT7652A5500W	U010-0028		Wireless (Zigbee)
VT7652B5500	U010-0029	2H/2C thermostat, programmable; PIR factory equipped	Standalone
VT7652B5500B	U010-0030		BACnet (MS/TP)
VT7652B5500E	U010-0031		Echelon
VT7652B5500W	U010-0032		Wireless (Zigbee)
VT7605B5000	U010-0049	2H/2C + economizer thermostat, non-programmable; PIR Ready (PIR cover not included)	Standalone
VT7605B5000B	U010-0050		BACnet (MS/TP)
VT7605B5000E	U010-0051		Echelon
VT7605B5000W	U010-0052		Wireless (Zigbee)
VT7656B5000	U010-0053	2H/2C + economizer thermostat, programmable; PIR Ready (PIR cover not included)	Standalone
VT7656B5000B	U010-0054		BACnet (MS/TP)
VT7656B5000E	U010-0055		Echelon
VT7656B5000W	U010-0056		Wireless (Zigbee)

MANUF. PART #	ORDERING #	DESCRIPTION	COMM.
VT7605B5500	U010-0057	2H/2C + economizer thermostat, non-programmable; PIR factory equipped	Standalone
VT7605B5500B	U010-0058		BACnet (MS/TP)
VT7605B5500E	U010-0059		Echelon
VT7605B5500W	U010-0060		Wireless (Zigbee)
VT7656B5500	U010-0061	2H/2C + economizer thermostat, programmable; PIR factory equipped	Standalone
VT7656B5500B	U010-0062		BACnet (MS/TP)
VT7656B5500E	U010-0063		Echelon
VT7656B5500W	U010-0064		Wireless (Zigbee)
VT7607B5000	U010-0033	2H/2C + humidity, non-programmable; PIR ready (PIR cover not included)	Standalone
VT7607B5000B	U010-0034		BACnet (MS/TP)
VT7607B5000E	U010-0035		Echelon
VT7607B5000W	U010-0036		Wireless (Zigbee)
VT7657B5000	U010-0037	2H/2C + humidity, non-programmable; PIR ready (PIR cover not included)	Standalone
VT7657B5000B	U010-0038		BACnet (MS/TP)
VT7657B5000E	U010-0039		Echelon
VT7657B5000W	U010-0040		Wireless (Zigbee)
VT7607B5500	U010-0041	2H/2C + humidity, non-programmable; PIR factory equipped	Standalone
VT7607B5500B	U010-0042		BACnet (MS/TP)
VT7607B5500E	U010-0043		Echelon
VT7607B5500W	U010-0044		Wireless (Zigbee)
VT7657B5500	U010-0045	2H/2C + humidity, programmable; PIR factory equipped	Standalone
VT7657B5500B	U010-0046		BACnet (MS/TP)
VT7657B5500E	U010-0047		Echelon
VT7657B5500W	U010-0048		Wireless (Zigbee)
VT7600H5000	U010-0065	3H/2C heat pump thermostat, non-programmable; PIR ready (PIR cover not included)	Standalone
VT7600H5000B	U010-0066		BACnet (MS/TP)
VT7600H5000E	U010-0067		Echelon
VT7600H5000W	U010-0068		Wireless (Zigbee)
VT7652H5000	U010-0069	3H/2C heat pump thermostat, programmable; PIR ready (PIR cover not included)	Standalone
VT7652H5000B	U010-0070		BACnet (MS/TP)
VT7652H5000E	U010-0071		Echelon
VT7652H5000W	U010-0072		Wireless (Zigbee)
VT7600H5500	U010-0073	3H/2C heat pump thermostat, non-programmable; PIR factory equipped	Standalone
VT7600H5500B	U010-0074		BACnet (MS/TP)
VT7600H5500E	U010-0075		Echelon
VT7600H5500W	U010-0076		Wireless (Zigbee)
VT7652H5500	U010-0077	3H/2C heat pump thermostat, programmable; PIR factory equipped	Standalone
VT7652H5500B	U010-0078		BACnet (MS/TP)
VT7652H5500E	U010-0079		Echelon
VT7652H5500W	U010-0080		Wireless (Zigbee)

DIMENSIONAL DRAWING

