

Communicating Thermostats: Rooftop Control

VT76xxA and VT76xxB Series



VT7600A5000

BACnet, Echelon, And Wireless Models Available

FEATURES

- PI time proportioning algorithm...increased comfort, accuracy, and energy savings
- 2 digital inputs...adds functionality
- Smart fan...saves energy during night mode
- Unique local configuration utility...minimizes parameter tampering
- Lockable keypad...tamper resistant, no need for thermostat guards
- Freeze protection...limits costly freeze damage
- EEPROM memory...no loss of program
- 6 hour reserve time for clock...reduces need to reprogram day or time after power outage
- Remote room and outdoor temperature sensor...increased flexibility and functionality
- Auxiliary output...can be used for lighting and/or economizer override
- Discharge air sensor...can be used to monitor unit efficiency
- Intuitive, menu-driven programming...can be used for all types of establishments

APPLICATIONS

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

SPECIFICATIONS



Thermostat Power Req.	19-30VAC; 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 10 K 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 38°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)
Binary Inputs	Dry contact across terminal BI1, BI2 & UI3 to Scom
Outputs Rating Triac output Analog	30VAC, 1A max., 3A in-rush 0 to 10VDC into 2kΩ resistance min.
Economizer Analog Output Rating	0 to 10VDC into 2kΩ 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"
Approximate Shipping Weight	0.75 lb (0.34 kg)

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 89/336/EEC (European Union)

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

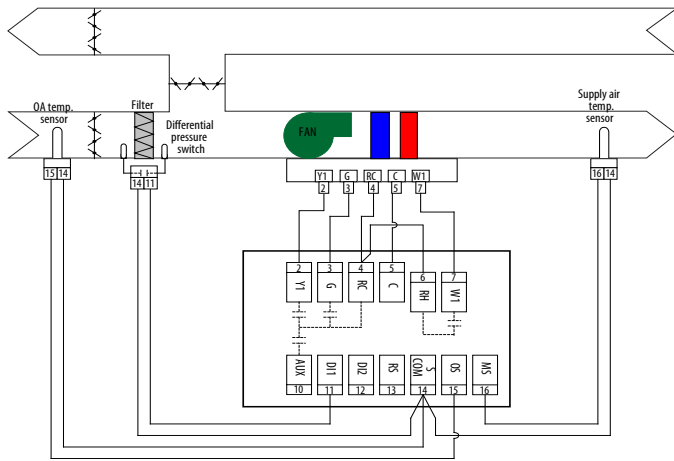
DESCRIPTION

The **VT76xxA and VT76xxB 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.

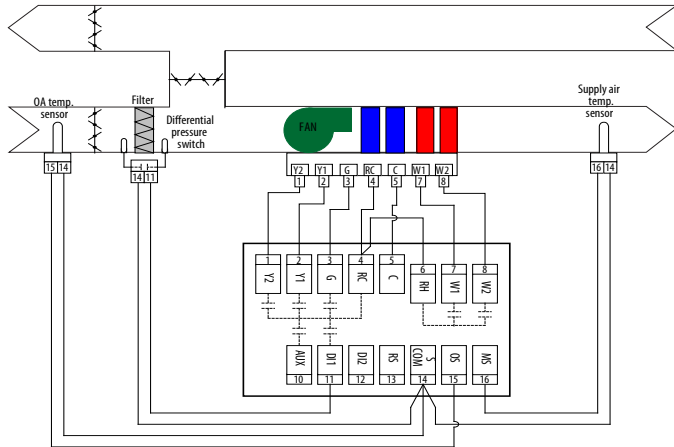
WIRING EXAMPLES

Typical 1H/1C Application



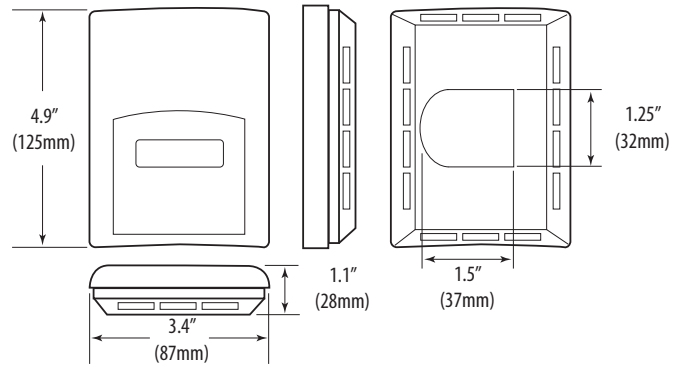
* Use for single speed fans, supply air temperature sensors, outdoor air temperature sensors, and differential pressure switches.

Typical 2H/2C Application



* Use for single speed fans, supply air temperature sensors, outdoor air temperature sensors, and differential pressure switches.

DIMENSIONAL DRAWING



ORDERING INFORMATION



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