

Communicating Thermostats: Analog or Floating Outputs, Fancoil Control

VT7300 Series



VT7300C5000



VT7300C5500

BACnet, Echelon, and Wireless Models Available

FEATURES

- Models available with internal humidity sensing...increased occupant comfort through dehumidification
- Advanced occupancy functions through the network or smart local occupancy sensing
- 3 configurable inputs...adds functionality
- Configurable sequences of operation...single model meets more applications
- Configurable fan functions button...meets more applications with a single model
- Unique local configuration utility...minimizes parameter tampering
- Multi-level lockable keypad...tamper resistant, no need for thermostat guards
- Auto Fan speed mode...increased occupant comfort in cooling mode by reducing humidity and less fan noise in all modes of operation
- Auxillary output...can be used for lighting, changeover sensors or reheating

DESCRIPTION

The **VT7300** PI thermostat family is designed for fancoil control. The product features a backlit LCD display with dedicated function menu buttons for simple operation. Accurate temperature control is achieved with the PI proportional control algorithm, which virtually eliminates temperature offsets associated with traditional, differential-based thermostats. All models can control three, two, or single fan speeds. Three additional inputs are also provided for added functionality. All models feature configurable System and Fan button functions to meet a range of applications and an auxiliary contact that controls lighting or auxiliary reheating. All devices are also available with Echelon or BACnet MS/TP network adapters.

APPLICATIONS

- Three-speed fans
- Heating/cooling valves
- Electric duct heaters
- Changeover sensors

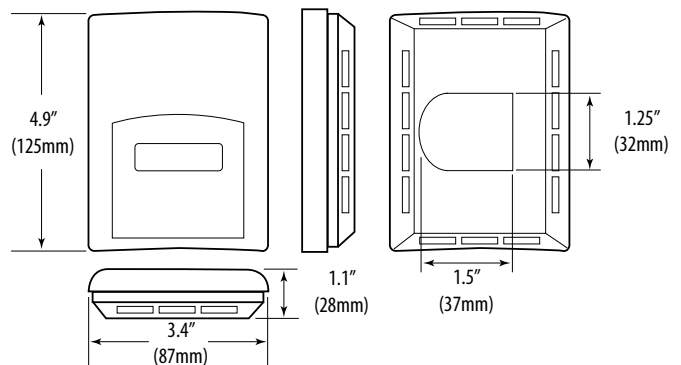
SPECIFICATIONS



Thermostat Power Requirements	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 Humidity ±3% from 20 to 70% RH at 21°C (70°F)
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 Scdm
Outputs Rating	Triac output: 30VAC, 1A max., 3A in-rush; Analog: 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

DIMENSIONAL DRAWING





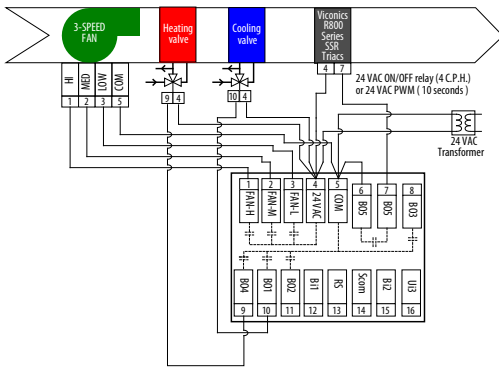
ORDERING INFORMATION

MANUF. PART #	ORDERING #	DESCRIPTION	COMM.
VT7300C5000	U009-0005	Fancoil Commercial 2	Stand alone
VT7300C5000B	U009-0006	Floating + 1 Auxiliary;	BACnet (MS/TP)
VT7300C5000E	U009-0007	PIR Ready (PIR cover not included)	Echelon
VT7300C5000W	U009-0008		Wireless (Zigbee)
VT7305C5000	U009-0013	Fancoil Hotel 2	Stand alone
VT7305C5000B	U009-0014	Floating + 1 Auxiliary;	BACnet (MS/TP)
VT7305C5000E	U009-0015	PIR Ready (PIR cover not included)	Echelon
VT7305C5000W	U009-0016		Wireless (Zigbee)
VT7350C5000	U009-0017	Fancoil Commercial 2	Stand alone
VT7350C5000B	U009-0018	Floating + 1 Auxiliary + RH;	BACnet (MS/TP)
VT7350C5000E	U009-0019	PIR Ready (PIR cover not included)	Echelon
VT7350C5000W	U009-0020		Wireless (Zigbee)
VT7355C5000	U009-0021	Fancoil Hotel 2	Stand alone
VT7355C5000B	U009-0022	Floating + 1 Auxiliary + RH;	BACnet (MS/TP)
VT7355C5000E	U009-0023	PIR Ready (PIR cover not included)	Echelon
VT7355C5000W	U009-0024		Wireless (Zigbee)
VT7300C5500	U009-0033	Fancoil Commercial 2	Stand alone
VT7300C5500B	U009-0034	Floating + 1 Auxiliary;	BACnet (MS/TP)
VT7300C5500E	U009-0035	PIR factory equipped	Echelon
VT7300C5500W	U009-0036		Wireless (Zigbee)
VT7305C5500	U009-0037	Fancoil Hotel 2	Stand alone
VT7305C5500B	U009-0038	Floating + 1 Auxiliary;	BACnet (MS/TP)
VT7305C5500E	U009-0039	PIR factory equipped	Echelon
VT7305C5500W	U009-0040		Wireless (Zigbee)
VT7350C5500	U009-0041	Fancoil Commercial 2	Stand alone
VT7350C5500B	U009-0042	Floating + 1 Auxiliary + RH;	BACnet (MS/TP)
VT7350C5500E	U009-0043	PIR factory equipped	Echelon
VT7350C5500W	U009-0044		Wireless (Zigbee)
VT7355C5500	U009-0045	Fancoil Hotel 2	Stand alone
VT7355C5500B	U009-0046	Floating + 1 Auxiliary + RH;	BACnet (MS/TP)
VT7355C5500E	U009-0047	PIR factory equipped	Echelon
VT7355C5500W	U009-0048		Wireless (Zigbee)

VT7300F5000	U009-0049	Fancoil Commercial 2	Stand alone
VT7300F5000B	U009-0050	Analog + 1 Auxiliary;	BACnet (MS/TP)
VT7300F5000E	U009-0051	PIR Ready (PIR cover not included)	Echelon
VT7300F5000W	U009-0052		Wireless (Zigbee)
VT7305F5000	U009-0053	Fancoil Hotel 2 Analog + 1 Auxiliary;	Stand alone
VT7305F5000B	U009-0054	PIR Ready (PIR cover not included)	BACnet (MS/TP)
VT7305F5000E	U009-0055		Echelon
VT7305F5000W	U009-0056		Wireless (Zigbee)
VT7350F5000	U009-0057	Fancoil Commercial 2	Stand alone
VT7350F5000B	U009-0058	Analog + 1 Auxiliary + RH;	BACnet (MS/TP)
VT7350F5000E	U009-0059	PIR Ready (PIR cover not included)	Echelon
VT7350F5000W	U009-0060		Wireless (Zigbee)
VT7355F5000	U009-0061	Fancoil Hotel 2 Analog + 1 Auxiliary + RH;	Stand alone
VT7355F5000B	U009-0062	PIR Ready (PIR cover not included)	BACnet (MS/TP)
VT7355F5000E	U009-0063		Echelon
VT7355F5000W	U009-0064		Wireless (Zigbee)
VT7300F5500	U009-0065	Fancoil Commercial 2	Stand alone
VT7300F5500B	U009-0066	Analog + 1 Auxiliary;	BACnet (MS/TP)
VT7300F5500E	U009-0067	PIR factory equipped	Echelon
VT7300F5500W	U009-0068		Wireless (Zigbee)
VT7305F5500	U009-0069	Fancoil Hotel 2 Analog + 1 Auxiliary;	Stand alone
VT7305F5500B	U009-0070	PIR factory equipped	BACnet (MS/TP)
VT7305F5500E	U009-0071		Echelon
VT7305F5500W	U009-0072		Wireless (Zigbee)
VT7350F5500	U009-0073	Fancoil Commercial 2	Stand alone
VT7350F5500B	U009-0074	Analog + 1 Auxiliary + RH;	BACnet (MS/TP)
VT7350F5500E	U009-0075	PIR factory equipped	Echelon
VT7350F5500W	U009-0076		Wireless (Zigbee)
VT7355F5500	U009-0077	Fancoil Hotel 2 Analog + 1 Auxiliary + RH;	Stand alone
VT7355F5500B	U009-0078	PIR factory equipped	BACnet (MS/TP)
VT7355F5500E	U009-0079		Echelon
VT7355F5500W	U009-0080		Wireless (Zigbee)

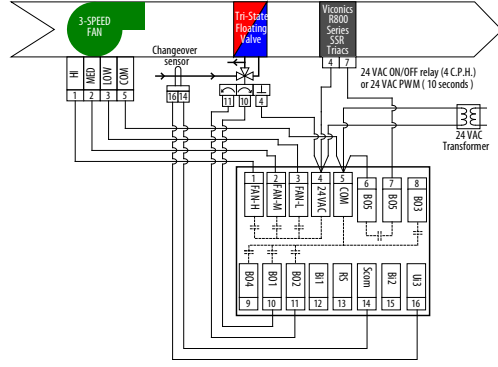
WIRING EXAMPLES

Typical 4-Pipe Application, On/Off Outputs



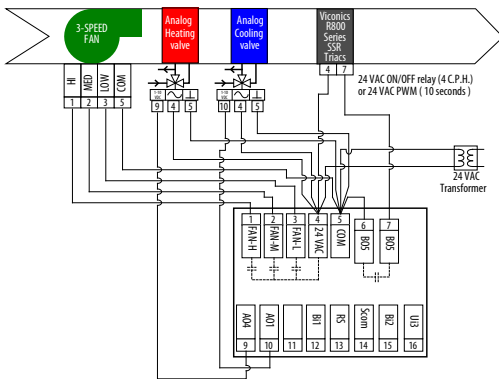
* Use for heating and cooling valves, 3-speed fans, and electric duct heaters.

Typical 2-Pipe Application, Floating Outputs



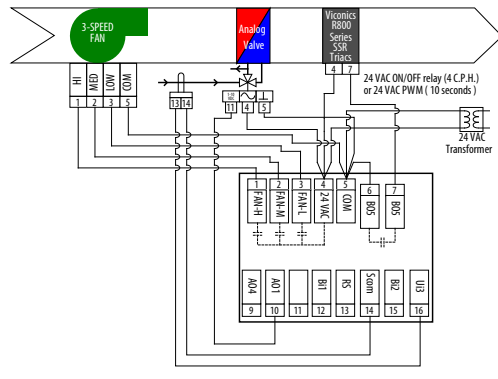
* Use for heating and cooling valves, 3-speed fans, and electric duct heaters.

Typical 4-Pipe Application



* Use for heating and cooling valves, 3-speed fans, and electric duct heaters.

Typical 2-Pipe Application



* Use for heating and cooling valves, 3-speed fans, and electric duct heaters.