THERMOSTATS & CONTROLLERS

ZONE THERMOSTAT AND FCU THERMOSTAT

VT7200. VT7300 SERIES

DESCRIPTION

70°

The Viconics VT7200 Series Zone thermostats are digitaldisplay, heating / cooling, with outputs for two-position, floating, and proportional terminal unit control. They are ideal for baseboard heat, unit heaters, radiant panels, reheat, or VAV box (pressure-dependent) control. VT7300 Series Fan Coil Unit (FCU) thermostats are digitaldisplay, heating / cooling, with outputs for two-position, floating, or proportional control. In addition, they include multispeed fan relays for high, medium, and low fan speed control. Both thermostats offer remote temperature sensor and remote digital inputs configured for night setback, filter alarm, motion sensor, door/window switch, or service indication.







VT7200C50xx Zone Thermostat





FEATURES

- · Zone or FCU control models
- Two-position, floating, or proportional models
- Remote room sensor option
- Adjustable deadband
- Setpoint range limits (heating and cooling)
- Three configurable inputs for any of: night setback, setback override, motion sensor, door or window switch, filter alarm, service advisory, heat/cool changeover
- °F/°C (configurable)
- Display offset
- Adjustable temporary occupied time
- Heat, cool, and reheat time base outputs are configurable
- Direct or reverse acting (proportional models)
- Keypad lockout functions
- Dehumidification control models
- Three-speed fan control (FCU model)
- Selectable system control (FCU model)

SPECIFICATIONS

Supply Voltage 19-30 VAC, 50/60 Hz **Supply Current** 2 VA

Two-line backlit LCD, ±0.2°F (0.1°C) Display **Control Accuracy** Temperature, ±0.9°F (±0.5°C)

VT7355C50xx, VT7355F50xx

Dehumidification, ±5% RH from 20 to

Thermostat Type Zone (VT7200) or FCU (VT7300) **Cover Controls**

Zone Models Up/down/override buttons Heat/Cool

"on" LEDs **FCU Models** Up/down/°C-or-°F/fan/mode buttons

Fan/Heat/Cool "on" LEDs

See terminal designation table **Control Outputs** VT7200C50xx 5 triacs (H/C, 2-position or floating) VT7200F50xx 1 triac, 2 analog outputs (H/C proportional 0 to 10 VDC)

VT73(05,55)C50xx 3 relays (fan), 5 triacs (H/C 2-position or floating control) VT73(05, 55)F50xx 3 relays (fan), 1 triac, 2 analog outputs (H/C proportional 0 to 10

VDC)

Triacs and Relays 30 VAC, 1A, 3A inrush

0-10 VDC, 2K minimum impedance, **Analog Outputs** direct or reverse acting

Auxiliary Inputs 2 digital inputs, 1 universal input,

1 remote sensor

Configurable as Service/status reminders Door/window/motion sensor switch

Filter alarm

Central night setback clock Remote occupied override switch Heat/Cool changeover, contact or

sensor

Digital Inputs Dry contact

Universal Input Dry contact or 10K Type 2 Model 24

thermistor

Remote Sensor Thermistor, 10K Type 2 Model 24

Control Type Proportional plus integral (PI) **Proportional Band** Heating and cooling, 2°F (1.1°C) **Floating Time Base** Adjustable, 0.5 to 9 minutes

Adjustable 3 to 8 **Cycles Per Hour**

Override Timer 0 to 24 hours, 1-hour increments, pushbutton reset

Adjustable ±5°F (±2.5°C), ±15% RH **Sensor Offset**

(humidity models)

Deadband Setpoint Adjustable 2° to 5°F (1° to 2.5°C)

Adjusted depending on heating or cooling mode, heating and cooling setpoints are changed simultaneously with respect to the

deadband

Cooling Limits 54° to 100°F (12° to 37.7°C) **Heating Limits** 40° to 90°F (4.5° to 32°C)

Keypad Lockout Selectable system/fan/unoccupied O=off, H=heating, C=cooling, **System Setting** A=automatic changeover

O/C, O/H, O/A/H/C, H/O/C **FCU Models**

Fan Setting L=low, M=medium, H=high, A=auto **FCU Models** L/M/H, L/H, L/M/H/A, L/H/A, On/A Enclosure UL FR1, flame retardant plastic Mounting Standard vertical, 2" x 4" box Wiring 18 AWG maximum, 22 AWG recommended

White Color

Operating Temperature 32° to 122°F (-30° to 50°C) 0-95% RH non-condensing **Operating Humidity Dimensions** 4.94"H x 3.38"W x 1.13"D

> (12.5 x 8.6 x 2.9 cm) 0.75 lb (0.34 Kg)

Weight UL, cUL, File #E234137, CE Approvals

RoHS Statement Yes Warranty 1 year

THERMOSTATS & CONTROLLERS

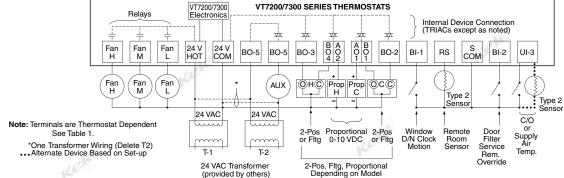
ZONE THERMOSTAT AND FCU THERMOSTAT





WIRING

ZONE THERMOSTATS		FAN COIL UNIT (FCU) THERMOSTATS					** Terminals and functions are not present on every thermostat		
VT7200C5031 2-Position or Floating VT7200F50 Proportion		VT7305C5031 2-Position or Floating	VT7355C5031 2-Position or Floating/RH	VT7305F5031 Proportional	VT7355F5031 Proportional/RH	Terminal**	Thermostat Function**		
5		Х	Х	Х	X	1	High speed fan		
-16	7	Х	Х	X	Х	2	Medium speed fan		
Ke		Х	Х	Х	Х	3	Low speed fan		
Х	Х	Х	Х	Х	Х	4	24 VAC power for thermostat, fan and BO-(1, 2, 3, 4), AO-(1, 2)		
Х	Х	Х	Х	Х	Х	5	24 VAC common for thermostat, fan and BO-(1, 2, 3, 4), AO-(1, 2)		
Х	Х	Х	Х	Х	Х	6	BO-5, auxiliary output, configurable (reheat, occupied, or unoccupied)		
Х	Х	Х	X	Х	х	7	BO-5, auxiliary output, configurable (reheat, occupied, or unoccupied)		
Х		Х	X			8	BO-3, open heating, (VT7200C5031, VT7355C5031)		
Х		X 10	Х			9	BO-4, close heating (VT7200C5031, VT7355C5031)		
	Х	In-		Х	Х	9	AO-2, heating (VT7305F5031, VT7355F5031)		
Х		Х	Х			10	BO-1, open cooling (VT7200C5031)		
	Х			Х	Х	10	AO-1, cooling (VT7305F5031, VT7355F5031)		
Х		Х	Х			11	BO-2, close cooling, (VT7200C5031, VT7355C5031)		
Х	Х	Х	Х	Х	Х	12	BI-1, configurable (night setback clock, motion detector, window switch		
Х	X	Х	Х	Х	X	13	RS, remote sensor, 10 kΩ thermistor		
Х	X	Х	Х	Х	X	14	SCOM, common for remote sensor, BI-(1, 2) and UI-1		
X	X	Х	Х	Х	X	15	BI-2, configurable (door, filter, service, remote override)		
Х	Х	Х	Х	X	Х	16	UI-3, configurable (changeover contact or sensor, supply air sensor)		



ORDERING INFORMATION

MODE	L .	THERMOSTAT TYPE			
VT7200	0 2	Zone Controller			
VT7300	0	Fancoil Controller Commercial (Override Occupancy)			
VT730	5	Fancoil Controller Hospitality (Hotel/Lodging w/ Temp Scale)			
VT7350	0	Fancoil Controller Commercial (Override Occupancy) w/ Humidity Sensor			
VT735	5	Fancoil Controller Hospitality (Hotel/Lodging w/Temp Scale) w/ Humidity Sensor			
	-	OUTPL	UTS		
		C 2	floating + 1 digital (for VT7200), 2 floating + 1 auxiliary (for VT73xx)		
		F 2 analog + 1 digital (for VT7200), 2 analog + 1 auxiliary (for VT73xx)			
		COVER			
		50	000 Viconics logo		
		50	031 Blank Cover (no logo)		
		5	500 PIR Cover w/ Viconics logo		
		5	531 PIR Cover Blank (no logo)		
VT730	05	C 5	6031 Example: VT7305C5031 Hospitality fancoil controller with 2 floating and 1 auxiliary outputs with a blank cover		

RELATED PRODUCTS

680-243-6 Changeover thermostat with conduit fitting COV-FCU-L Blank cover for fan coil thermostats COV-ZN Blank cover for zone thermostats KTR24 Remote room thermistor sensor

KTR24-LED-MB ST-D24Remote room sensor with override button and LED 10K Type 2 duct temperature themistor

ST-R24SC Strap-on pipe thermistor

September 2016