THERMOSTATS & CONTROLLERS

ZONE AND FCU COMMUNICATING THERMOSTAT (BACNET, LON)



VT7200, VT7300 COMMUNICATING

DESCRIPTION

The Viconics VT7200 Zone thermostats are digital-display, 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 Fan Coil Unit (FCU) thermostats are digital-display, heating / cooling, with outputs for two-position, floating, or proportional control. In addition, they include multi-speed 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. All models offer standard BACnet or LON open-protocol communications.



VT7200C5031B **BACnet Zone Thermostat**



VT7305C5031B **BACnet FCU Thermostat**











FEATURES

- BACnet or LON communication models
- Stand-alone operation on communication loss
- Two-position, floating, or proportional models
- Remote room sensor option
- Adjustable deadband
- Single setpoint adjustment

- Setpoint range limits (heating and cooling)
- Three configurable inputs for 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)
- PIR cover sensor (Optional)

SPECIFICATIONS

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

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

VT7350C50xx, VT7350F50x

Dehumidification, ±5% RH from 20% to

80% RH

Zone (VT7200) or FCU (VT7300) Thermostat Type

Cover Controls

Up/down/override buttons

Zone Models

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

Fan/Heat/Cool "on" LEDs

Control Outputs See terminal designation table VT7200C50xx 5 triacs (H/C, 2-position or floating

control)

VT7200F50xx 1 triac, 2 analog outputs (H/C

proportional 0 to 10 VDC)

VT7300C50xx, VT7350C50xx

3 relays (fan), 5 triacs (H/C, 2-position

or floating control)

VT7300F50xx, VT7350F50xx

Configurable as

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, $2K\Omega$ minimum impedance, **Analog outputs**

direct or reverse acting

Auxiliary Inputs 2 digital inputs, 1 universal input, 1 remote sensor

> Service/status reminders Door/window/motion sensor switch

Filter alarm

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

sensor Dry contact **Remote Sensor**

Universal Input

Control Type Proportional Band Floating Time Base

Cycles Per Hour Override Timer

Sensor Offset

Deadband Setpoint

Cooling limits Heating limits Keypad Lockout System Setting

(FCU models) **Fan Setting** (FCU models)

Wiring

Enclosure Color Mounting

Operating Temperature Operating Humidity Dimensions

Weight

Approvals

RoHS Statement Warranty

Dry contact or 10K Type 2 Model 24 thermistor

Thermistor, 10K Type 2 Model 24 Proportional plus integral (PI) Heating and cooling, 2°F (1.1°C) Adjustable, 0.5 to 9 minutes

Adjustable 3 to 8

0 to 24 hours, 1-hour increments,

pushbutton reset

Adjustable ±5°F (±2.5°C), ±15% RH

(humidity models)

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

54° to 100°F (12°C to 37.7°C) 40° to 90°F (4.5° to 32°C) Selectable system/fan/unoccupied O=off, H=heating, C=cooling,

A=automatic changeover O/C, O/H, O/A/H/C, H/O/C L=low, M=medium, H=high, A=auto

L/M/H, L/H, L/M/H/A, L/H/A, On/A 18 AWG maximum, 22 AWG recommended

UL FR1, flame retardant plastic White

Standard vertical, 2" x 4" box 32° to 122°F (0° to 50°C)

0 to 95% RH (non-condensing) 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)

UL Listed File #E234137, cULus, CE,

LonMark Yes 1 year

September 2016

Digital Inputs

1328



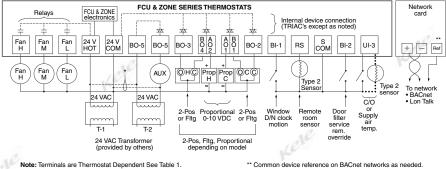
THERMOSTATS & CONTROLLERS

ZONE AND FCU COMMUNICATING THERMOSTAT (BACNET, LON)

VT7200, VT7300 COMMUNICATING

WIRING

TABLE 1. TERMINAL DESIGNATIONS BY THERMOSTAT (FCU & ZONE)												
ZONE THERMOSTATS		FAN COIL UNIT (FCU) THERMOSTATS						** Terminals and function are not present on every thermostat				
VT7200C-E	VT7200F-E	VT7300A-E	VT7300C-E	VT7350C-E	VT7300F-E	VT7350F-E	< LON	Thermostat Function**				
VT7200C-B	VT7200F-B	VT7300A-B	VT7300C-B	VT7350C-B	VT7300F-B	VT7350F-B	< BACnet					
2-position/	Proportional	2-position	2 position/	2 position/	Proportional	Proportional/	Terminal**					
floating			floating	floating/RH		RH		A Company of the Comp				
		Х	Х	Х	Х	X	1	High speed fan (FCU)				
		X	Х	X	X	Х	2	Medium speed fan (FCU)				
		X	X	X	X	X	3	Low speed fan (FCU)				
X	X	X	X	X	X	X	4	24 VAC power for thermostat, fan and BO-(1,2,3,4) AO-(1,2)				
Х	Х	Х	X	Х	X	Х	5	24 VAC power for thermostat, fan and BO-(1,2,3,4) AO-(1,2)				
Х	Х	Х	Х	Х	Х	Х	6	BO-5, aux output, configurable (reheat, occupied/un-occupied)				
Х	Х	Х	X	Х	X	X	7	BO-5, aux output, configurable (reheat, occupied/un-occupied)				
X		Х	Х	X			8	BO-3, open heating				
X			X	X			9	BO-4, close heating				
	X		1/2		X	X	9	AO-2, heating				
X			X	Х			10	BO-1, open cooling				
	Х				Х	X	10	AO-1, cooling				
X		Х	Х	Х			11	BO-2, close cooling				
X	Х	Х	Х	Х	Х	X	12	BI-1, configurable (night set back clock, motion detector, window switch)				
X	Х	Х	Х	Х	Х	Х	13	RS, remote sensor, 10 KΩ thermistor				
X	X	X	Х	Х	X	X	14	Scom, common for remote sensor, BI-(1,2), and UI-1				
X	X	Х	Х	Х	Х	X	15	BI-2, configurable (door, filter, service, remote override)				
X	Х	X	X	Х	X	X	16	UI-3, configurable (change over contact or sensor, supply air sensor)				



*One Transformer Wiring (Delete T2)
..Alternate Device Based on Set-up

ORDERING INFORMATION

MODEL	TH	ERMO	STAT TYPE			
VT7200	Zoi	Zone controller				
VT7300	Far	Fancoil controller commercial (override occupancy)				
VT7305	Far	Fancoil controller hospitality (hotel/lodging with temp scale)				
VT7350	Far	Fancoil controller commercial (override occupancy) with humidity sensor				
VT7355	Far	Fancoil controller hospitality (hotel/lodging with temp scale) with humidity sensor				
	OU	TPUT	S			
	С	2 floa	ting + 1 digital (for VT7200), 2 floating + 1 auxiliary (for VT73xx)			
	F	2 ana	log + 1 digital (for VT7200), 2 analog + 1 auxiliary (for VT73xx)			
	\top	COVE	iR .			
		5000	Viconics logo			
		5031	Blank cover (no logo)			
		5500	PIR cover with Viconics logo			
		5531	PIR cover blank (no logo)			
			COMMUNICATION PROTOCOL			
			E Echelon/LONworks			
			B BACnet			
			P Wireless/Zigbee Pro			
			W Wireless			
VT7305	C	5031	W Example: VT7305C5031W Hospitality fancoil controller with 2 floating + 1 auxiliary outputs in a blank cover case with wireless communication protocol			

ACCESSORIES

EASY RETURNS, LET KELE DO THE LEGWORK

COV-PIR-FCU-C-5031 COV-PIR-ZN-5031 TG511A1000

PIR cover for FCU thermostat PIR cover for Zone thermostat Thermostat guard- clear-medium size

September 2016