

THERMOSTATS & CONTROLLERS



ZONE AND FCU COMMUNICATING THERMOSTAT (BACNET, LON, ZIGBEE, ZIGBEE PRO) SE7200, SE7300 COMMUNICATING



DESCRIPTION

The **Schneider Electric SE7200 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. **SE7300 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.



SE7200C50xx



SE7305C50xx



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 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)**
- **PIR cover sensor (Optional)**

SPECIFICATIONS

Supply Voltage	19-30 VAC @ 2 VA, 50/60 Hz	Floating Time Base	Adjustable, 0.5 to 9 minutes
Display	Two line backlit LCD, ±0.2°F (±0.1°C)	Cycles Per Hour	Adjustable 3 to 8
Control Accuracy	Temperature, ±0.9 (±0.5°C)	Override Timer	0 to 24 hours, 1-hour increments, pushbutton reset
SE7350C50xx, SE7350F50xx	Dehumidification, ±5% RH from 20% to 80% RH	Sensor Offset	Adjustable ±5°F (±2.5), ±15% RH (humidity models)
Thermostat Type	Zone (SE7200) or FCU (SE7300)	Deadband	Adjustable 2° to 5°F (1° to 2.5°C)
Cover Controls		Setpoint	Adjusted depending on heating or cooling mode, heating and cooling setpoints are changed simultaneously with respect to the deadband
Zone Models	Up/down/override buttons	Cooling Limits	54° to 100°F (12° to 37.7°C)
	Heat/Cool "on" LEDs	Heating Limits	40° to 90°F (4.5° to 32°C)
FCU Models	Up/down/°C-or-°F/fan/mode buttons	Keypad Lockout	Selectable system/fan/unoccupied
	Fan/Heat/Cool "on" LEDs	System Setting	O=off, H=heating, C=cooling, A=automatic changeover
Control Outputs	See terminal designation table	(FCU Models)	O/C, O/H, O/A/H/C, H/O/C
SE7200C50xx	5 triacs (H/C, 2-position or floating control)	Fan Setting	L=low, M=medium, H=high, A=auto
SE7200F50xx	1 triac, 2 analog outputs (H/C proportional 0 to 10 VDC)	(FCU Models)	L/M/H, L/H, L/M/H/A, L/H/A, On/A
SE7300A50xx	3 relays (fan), 3 triacs (H/C, 2-position control)	Wiring	18 AWG maximum, 22 AWG recommended
SE7300C50xx, SE7350C50xx	3 relays (fan), 5 triacs (H/C, 2-position or floating control)	Color	White
SE7300F50xx, SE7350F50xx	3 relays (fan), 1 triac, 2 analog outputs (H/C proportional 0 to 10 VDC)	Mounting	Standard vertical, 2" x 4" box
Triacs and relays	30 VAC, 1A, 3A inrush	Operating Temperature	32° to 122°F (0° to 50°C)
Analog outputs	0-10 VDC, 2KΩ minimum impedance, direct or reverse acting	Operating Humidity	0 to 95% RH non-condensing
Auxiliary Inputs	2 digital inputs, 1 universal input, 1 remote sensor	Enclosure Rating	NEMA 1, UL FR1, flame retardant plastic
Configurable As	Service/status reminders	Dimensions	4.94"H x 3.38"W x 1.13"D (12.5 x 8.6 x 2.9 cm)
	Door/window/motion sensor switch	Weight	0.75 lb (0.34 Kg)
	Filter alarm	Approvals	UL File #E234137, BACnet, CE, LonMark, RoHS
	Central night setback clock	Warranty	1 year
	Remote occupied override switch		
Digital Inputs	Heat/Cool changeover, contact or sensor		
Universal Input	Dry contact		
Remote Sensor	Dry contact or 10K Type 2 Model 24 thermistor		
Control Type	Thermistor, 10K Type 2 Model 24		
Proportional Band	Proportional plus integral (PI)		
	Heating and cooling, 2°F (1.1°C)		

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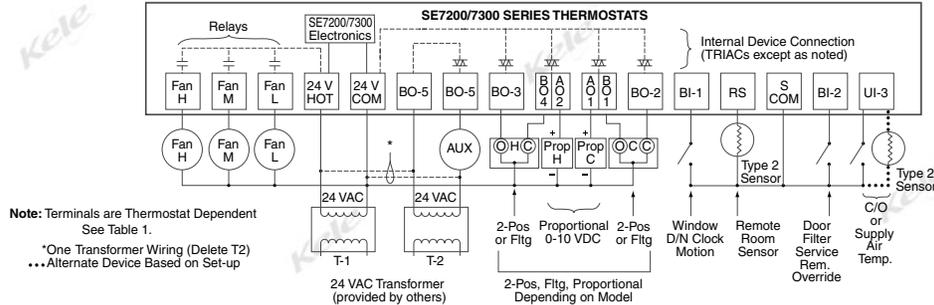
21

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WIRING

ZONE THERMOSTATS				FAN COIL UNIT (FCU) THERMOSTATS		** Terminals and functions are not present on every thermostat	
SE7200C5031 2-Position or Floating	SE7200F5031 Proportional	SE7305C5031 2-Position or Floating	SE7355C5031 2-Position or Floating/RH	SE7305F5031 Proportional	SE7355F5031 Proportional/RH	Terminal**	Thermostat Function**
		X	X	X	X	1	High speed fan
		X	X	X	X	2	Medium speed fan
		X	X	X	X	3	Low speed fan
X	X	X	X	X	X	4	24 VAC power for thermostat, fan and BO-(1, 2, 3, 4), AO-(1, 2)
X	X	X	X	X	X	5	24 VAC common for thermostat, fan and BO-(1, 2, 3, 4), AO-(1, 2)
X	X	X	X	X	X	6	BO-5, auxiliary output, configurable (reheat, occupied, or unoccupied)
X	X	X	X	X	X	7	BO-5, auxiliary output, configurable (reheat, occupied, or unoccupied)
X		X	X			8	BO-3, open heating. (SE7200C5031, SE7355C5031)
X		X	X			9	BO-4, close heating (SE7200C5031, SE7355C5031)
	X			X	X	9	AO-2, heating (SE7305F5031, SE7355F5031)
X		X	X			10	BO-1, open cooling (SE7200C5031)
	X			X	X	10	AO-1, cooling (SE7305F5031, SE7355F5031)
X		X	X			11	BO-2, close cooling. (SE7200C5031, SE7355C5031)
X	X	X	X	X	X	12	BI-1, configurable (night setback clock, motion detector, window switch)
X	X	X	X	X	X	13	RS, remote sensor, 10 k Ω thermistor
X	X	X	X	X	X	14	SCOM, common for remote sensor, BI-(1, 2) and UI-1
X	X	X	X	X	X	15	BI-2, configurable (door, filter, service, remote override)
X	X	X	X	X	X	16	UI-3, configurable (changeover contact or sensor, supply air sensor)



ORDERING INFORMATION

MODEL	THERMOSTAT TYPE
SE7200	Zone Controller
SE7300	Fancoil Controller Commercial (Override Occupancy)
SE7305	Fancoil Controller Hospitality (Hotel/Lodging w/ Temp Scale)
SE7350	Fancoil Controller Commercial (Override Occupancy) w/ Humidity Sensor
SE7355	Fancoil Controller Hospitality (Hotel/Lodging w/Temp Scale) w/ Humidity Sensor

OUTPUTS

C	2 floating + 1 digital (for SE7200), 2 floating + 1 auxiliary (for SE73xx)
F	2 analog + 1 digital (for SE7200), 2 analog + 1 auxiliary (for SE73xx)

COVER

5045	Schneider Electric logo
5545	PIR Cover w/ Schneider Electric logo

COMMUNICATION PROTOCOL

E	Echelon / LonWorks
B	BACnet
P	Wireless / ZigBee PRO (13 db, 20mW output)

SE7305 C 5045 **Example: SE7305C5045** Hospitality fancoil controller with 2 floating and 1 auxiliary outputs with a Schneider Electric logo

RELATED PRODUCTS

680-243-6	Changeover thermostat with conduit fitting
KTR24	Remote room thermistor sensor
KTR24-LED-MB	Remote room sensor with override button and LED
ST-D24	10K Type 2 duct temperature thermistor
ST-R24SC	Strap-on pipe thermistor