THERMOSTATS & CONTROLLERS

PROGRAMMABLE FAN COIL CONTROLLER

SE8300 SERIES



DESCRIPTION

The Schneider Electric SE8300 Series are fan coil room controllers so smart energy management has never been easier. Designed for new construction and retrofit projects, the room controllers dramatically decrease project delivery costs by reducing installation, configuration and commissioning time. No complex software or tools are required to customize functionality in order to meet your applications requirements. The room controllers provide all the advanced features and monitoring functions required by modern building automation systems in a simplet compact enclosure.

The **SE8300 Series** are specifically designed to provide exceptional temperature control of multi-speed fan coil units. All models can provide advanced occupancy routines and automatic energy savings during occupied periods without sacrificing occupant comfort. When compared to traditional building automation controllers, the **SE8300 Series** fan coil room controllers provide unmatched return on investment.













SE8300 Series

FEATURES

- Five (5) customizable colors for digital touch screens
- Supports the upload of a custom standby screen
- Supports the display of custom messages when integrated via BACnet MS/TP
- English, French, Spanish, Chinese, Russian and other selectable languages
- Interchange between °C/°F
- BACnet MS/TP (default model)
- ZibBee Pro wireless mesh network (optional)
- Suitable for both commercial and hospitality markets and systems
- Humidity sensor with on-board dehumidification strategy (model dependent)
- Configurable fan sequence of operation

SPECIFICATIONS

Digital Inputs

Supply Voltage 19-30 VAC, 50/60 Hz Supply VA 6 VA Accuracy Temperature, ±0.9°F

Temperature, ±0.9°F (±0.5°C), Dehumidification 30% to 95% RH

Dry contact

Universal Input Dry contact or 10K Type 2 Model 24

thermistor

Display Two line backlit LCD, ±0.2°F (±0.1°C)

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

Remote Sensor

Thermistor, 10K Type 2 Model 24

Control Type Proportional plus integral (PI)
Cycles Per Hour Adjustable
Setpoint Adjusted depending on heating

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° C to 37.7° C)Heating limits 40° to 90° F (4.5° to 32° C)

Keypad Lockout System Setting

Fan Setting Wiring Color

Mounting Standard vertical, 2" x 4"

Operating Temperature 32° to 122°F (0° to 50°C)

Operating Humidity 0 to 95% RH (non-condent)

Enclosure Rating Dimensions

Weight Approvals Warranty Selectable system/fan/unoccupied O=off, H=heating, C=cooling, A=automatic changeover L=low, M=medium, H=high, A=auto

16-24 AWG, 22 AWG recommended White or Silver

Standard vertical, 2" x 4" box

32° to 122°F (0° to 50°C) 0 to 95% RH (non-condensing) UL FR1, flame retardant plastic 4.72"H x 3.38"W x 1.00"D

(12.0 x 8.6 x 2.5 cm) 0.75 lb (0.34 Kg)

UL Listed File #E234137, cULus, CE

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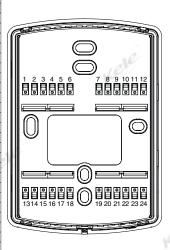
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SE8300 SERIES

WIRING

70°

TERMINAL DESIGNATION FOR 2-PIPE AND 4-PIPE APPLICATIONS (Not all terminals are used for all applications)				
TERMINAL NUMBER	TERMINAL LABEL	DESCRIPTION		
1	BO1 - Aux	Not used		
2	BO2- Y2	Fan speed Low		
3	BO3- Y1	Fan speed Med		
4	BO4- G	Fan speed High		
5	RC/24 V~HOT	24 VAC power supply for thermostat		
6	C/ 24 V~COM	24 VAC common for thermostat		
7	RH	Auxiliary heat		
8	BO8-W1	Auxilliary heat		
9	U09-W2	Normally Closed Cooling Valve (On/Off control); Close Cooling Valve (Floating Control); Not used for Analog Control		
10	UO10	Normally Closed Heating Valve (On/Off control); Close Heating Valve (Floating Control); Not used for Analog Control		
11	U011	Normally Open Cooling Valve (On/Off control); Open Cooling Valve (Floating Control); Analog Control Heating Valve		
12	UO12	Normally Open Heating Valve (On/Off control); Open Heating Valve (Floating Control); Analog Control Cooling Valve		
13	RS485+	BACnet MS-TP+		
14	RS485-	BACnet MS-TP-		
15	RS485 REF	BACnet MS-TP Ref		
16	UI16	Universal input function specified		
17	UI17	Universal input function specified		
18	Scom	Sensor common		
19	UI19-CO2	Universal input function specified		
20	UI20 - RS	Remote Room Sensor		
21	Scom	Sensor common		
22	UI22 - SS	Remote Supply Sensor		
23	UI23 - OS	Not used		
24	UI24	Not used		



ORDERING INFORMATION

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MODEL	DESCRIPTION		
SE8300U0B00	Room Controller for zone and fan coil units, 24 VAC low voltage with BACnet, silver casing and cover		
SE8300U0B11	Room Controller for zone and fan coil units, 24 VAC low voltage with BACnet, white casing and cover		
SE8300U5B00	Room Controller for zone and fan coil units, 24 VAC low voltage with BACnet and motion (PIR) sensor, silver casing and cover		
SE8300U5B11	Room Controller for zone and fan coil units, 24 VAC low voltage with BACnet and motion (PIR) sensor, white casing and cover		
SE8350U0B00	Room Controller for zone and fan coil units, 24 VAC low voltage with BACnet and humidity control, silver casing and cover		
SE8350U0B11	Room Controller for zone and fan coil units, 24 VAC low voltage with BACnet and humidity control, white casing and cover		
SE8350U5B00	Room Controller for zone and fan coil units, 24 VAC low voltage with BACnet, motion (PIR) sensor, and humidity control, silver casing and cover		
SE8350U5B11	Room Controller for zone and fan coil units, 24 VAC low voltage with BACnet, motion (PIR) sensor, and humidity control, white casing and cover		

WIRELESS ACCESSORIES		
MODEL	DESCRIPTION	
SED-DOR-P-5045	Wireless remote sensor door switch	
SED-WIN-P-5045	Wireless remote sensor window switch	
SED-WDS-P-5045	Wireless remote sensor door or window switch	
SED-WMS-P-5045	Wireless remote wall mount occupancy sensor	
SED-CMS-P-5045	Wireless remote ceiling mount occupancy sensor	
VCM8000V5045P*	ZigBee Pro extended profile communication module for all SE8000 series controllers	

Required for Zigbee Pro wireless communication for SED sensors

REPLACEMENT COVERS (FASCIAS)			
MODEL	DESCRIPTION		
FAS-00	Fascia replacement-Silver		
FAS-01	Fascia replacement-White		
FAS-02	Fascia replacement-Glossy Translucent Silver		
FAS-03	Fascia replacement-Glossy Translucent White		
FAS-04	Fascia replacement-Glossy Translucent Black		
FAS-08	Fascia replacement-Brushed Aluminum Finish		
FAS-09	Fascia replacement-Light Grey Sleight Finish		

ACCESSORIES

COV-HPUMP
COV-MULTI
COV-SEN-O
TG511A1000

Cover, neat pump, no logo
Cover, conventional, no logo
Cover, no logo, sensor with override
Thermostat guard- clear-medium size

RELATED PRODUCTS

KTR24 Remote room thermistor sensor

KTR24-LED-MBRemote room sensor with override button and LED **ST-FZ24-8**Remote room sensor with override button and LED

Averaging duct thermistor sensor, Type 2, Model 24

ST-D24 10K Type 2 duct temperature themistor

ST-O24 OSA thermistor sensor, Type 2, model 24, ±0.36°F (0.20°C)

September 2016