



Product Catalog

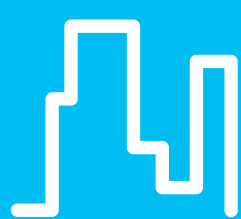


SpaceLogic™ Room Controllers

www.se.com

Schneider
Electric

Schneider Electric SpaceLogic™ Room Controllers bridge the gap between the cost of stand-alone thermostats, and the performance of DDC systems, by simplifying installation and commissioning, to control rooftop units, fan coil units, terminal units, and heat pump applications, for a wide variety of facilities.



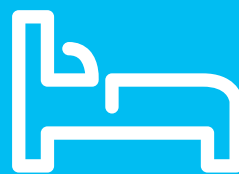
Commercial



Retail



Healthcare



Hotels



Education

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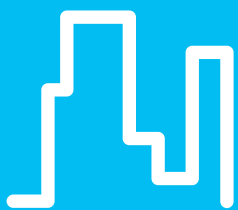
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SpaceLogic™ Room Controllers provide comfort and energy savings using their native application-specific control sequences, PI algorithms, occupancy detection and schedule management.



Building



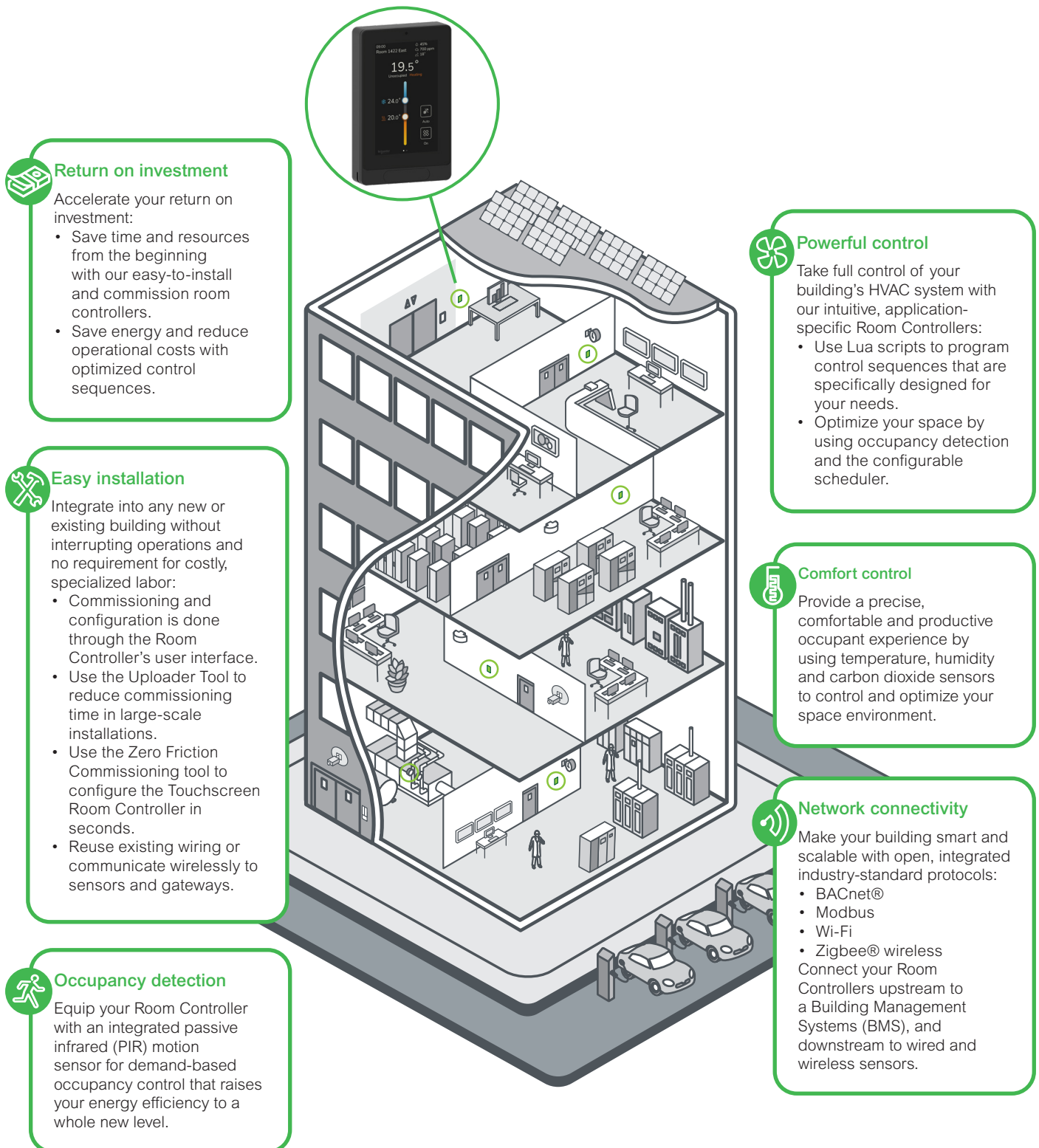
Efficient control



Green energy

Cost-saving, energy-saving applications

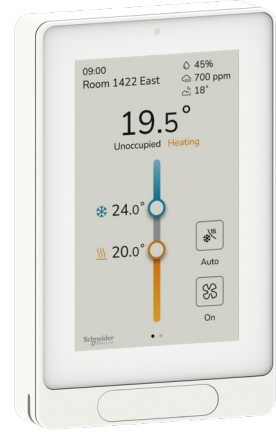
From hotels and hospitals to schools, retail, and commercial buildings, Schneider Electric offers wide-ranging room control solutions for your building management needs. Our Room Controllers look like thermostats, but work like controllers, delivering the optimal level of comfort while maximizing savings on energy and operational costs. Whether retrofitting current systems with a more technologically advanced Room Controller or going green with a more environmentally friendly option, Schneider Electric has the ideal, cost-competitive solution.



Compare Room Controllers

Compare Room Controllers

Smart energy management has never been easier than with the Schneider Electric room controllers. Designed for new construction and retrofit projects, our room controllers dramatically decrease project delivery costs by reducing installation, configuration and commissioning time. No complex software or tools are required to customize functionality to meet your applications requirements.



SE7000	SE8000	Touchscreen Room Controllers
Simply the most cost-effective option on the market	The power to choose for customers who need more	A perfect balance of simplicity and sophistication where design meets functionality
> Easy-to-understand, menu driven LCD display > Thermostat-like functionality > Setpoint or fan speed control > Optional occupancy detection > Optional on-board relative humidity sensor > Stand-alone or optional BACnet communication > Optional Zigbee wireless communication*	> Touch interface LED display > Up to 160 design combinations with selectable casings, fascias, and display color schemes, to match any décor > Customizable user interface with selectable languages > Custom standby screen image with text messaging > Use the Uploader Tool to reduce commissioning time in large-scale installations	> Smartphone style glass front with swipe and scroll touch interface LED display > Light and dark color themes for a modern and sleek aesthetic > Tailor-made to fit any complex and high-end application > Ambient light and proximity sensors > Halo backlight > Dynamic HVAC optimization with AI Eco Mode > BACnet/IP over Wi-Fi > Control lights and blinds > Send DND and MUR courtesy notifications > Alert full-screen messages > Banner notifications > Use the Zero Friction Commissioning tool, a function of the EcoStruxure Building Commission App, to deploy at scale by cloning settings across multiple controllers. The tool uses NFC to tap-and-configure user settings, device information, location, and BACnet/Modbus/WiFi networks.
* SE7000 Zigbee wireless communicates only with existing installed legacy peripherals and sensors, and is not compatible with available Schneider Electric wireless Zigbee sensors.		

Compare Room Controllers

Applications



Applications	SE7000	SE8000	Touchscreen Room Controllers
Low Voltage (24 Vac) Fan Coil Unit (FCU) with optional VC2300 Mixed Voltage Relay Pack	SE7300 SE7350 SE7355	SE8350	TRC3500
Zone Controller	SE7200 SE7300 SE7350 SE7355 SEZ7260		
Rooftop Unit (RTU)	SE7600 SE7652 SE7656 SE7657 SEZ7656	SE8650	TRC6500
Heat Pump	SE7652 SEZ7656		
Indoor Air Quality (IAQ) and Economizer	SE7656 SEZ7656		
Line Voltage Fan Coil Unit (FCU) with VC3000 Line Voltage Relay Pack	SER7300 SER7350 SER7355	SER8350	TRC4500 coming soon
Variable Air Volume (VAV)	Not available	SEZ8250	Not available
Dehumidification	SE7300 SE7652 SE7657 VH7200 VH7270	SE8350 SE8650 SER8350	TRC3500 TRC6500
Humidification	SE7657 VH7200 VH7270	All models running a custom Lua script	All models running a custom Lua script
Scheduler	SE7652 SE7656 SE7657	All models	All models

Compare Room Controllers

Features



Features	SE7000	SE8000	Touchscreen Room Controllers
Alarm Monitoring	✓	✓	✓
Change of Value (COV)	✓	✓	✓
Door/Window Switch	✓	✓	✓
Automated Demand Response (ADR)	✗	✓	✓
Custom Standby Screen Image	✗	✓	✓
Lua	✗	✓	✓
Standby Screen Messages	✗	✓	✓
Uploader Tool	✗	✓	✓
AI Eco Mode	✗	✗	✓
Alert Full-Screen Messages	✗	✗	✓
Courtesy Buttons	✗	✗	✓
Home Screen Notification Banners	✗	✗	✓
Lights and Blinds Control	✗	✗	✓
Zero Friction Commissioning Tool	✗	✗	✓
Halo Backlight	✗	✗	✓ Optional
Network			
BACnet MSTP	✓ Optional	✓	✓
Zigbee Pro and 3.0	✓ Optional Pro only	✓ Optional	✓ Optional
Modbus RTU	✗	✓	✓
Firmware Update Over BACnet	✗	✗	✓
BACnet/IP over Wi-Fi	✗	✗	✓ Optional
On-board Sensors			
Temperature Sensor	✓	✓	✓
Humidity Sensor	✓ Optional	✓	✓
PIR Motion Sensor	✓ Optional	✓ Optional	✓
CO2 Sensor Plug-in Module	✗	✓ Optional	✗ Coming soon
Ambient Light Sensor	✗	✓	✓
Proximity Sensor	✗	✗	✓ Optional
Appearance			
Casing Color	White	Silver/White	Black/White
Fascias	None	8 colors	None
Screen Size	1.5 x 0.63 in	3.5 in 320 x 240 px	4.3 in 800 x 480 px
Screen Type	LCD 2x8 character	LED Resistive Touchscreen	LED Capacitive Touchscreen

Touchscreen Room Controllers

Touchscreen Room Controllers

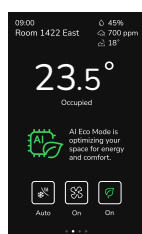
The award winning SpaceLogic™ Touchscreen Room Controllers are designed to deliver customized room environment control, modernize the user experience, and improve building efficiency. The all-in-one design provides a seamless and intuitive interaction that harmonizes with the ever-evolving needs of occupants. A single sheet of glass across the front produces a smooth and seamless swiping and scrolling experience. Select a black or white casing and a light or dark theme for the screen.

Suitable for commercial and high-end hospitality markets, extend beyond HVAC with enriched applications including the control of lights and blinds, courtesy notifications and alert full-screen messages. Use the halo backlight to reflect the mode of operation (heating/cooling) and as a visual cue to alert messages. Automatically optimize energy consumption while maintaining comfort with AI Eco Mode.

Use the setup screens to customize your display preferences including date and time, language, screen brightness, button configuration, environmental information, setpoint control (slider or button) and standby screen. Configure HVAC settings including Automatic Demand Response (ADR), dehumidifier, economizer, heat pump, roof top, fan, inputs and setpoints.

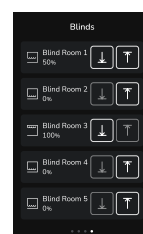
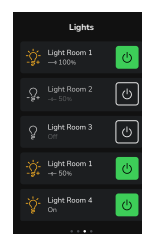


AI Eco Mode

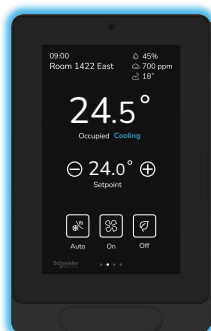
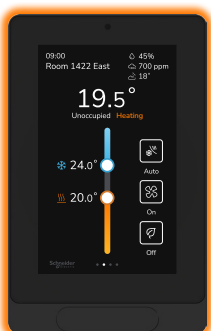


AI Eco Mode is optimizing your space for energy and comfort.

Lights and Blinds Control



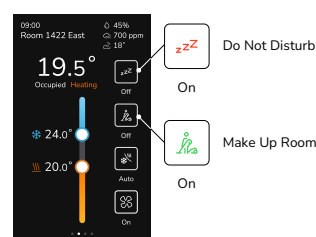
Customizable HMI and Halo Backlight



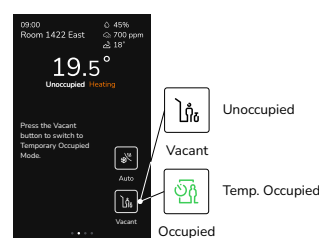
Common Features

- A configurable sequence of operations
- BMS integration using BACnet or Modbus network protocols
- Configurable scheduler
- Programmable with Lua4RC scripts
- On-board relative humidity sensor with dehumidification control strategy
- On-board PIR motion sensor with occupancy-based control sequences
- Optional BACnet/IP over Wi-Fi
- Optional Zigbee wireless connectivity to CO2/temperature/humidity, window/door, motion and water leak sensors
- Ambient light sensor
- Optional proximity sensor
- Optional halo backlight
- Firmware updates via USB, BACnet/IP over Wi-Fi or wired BACnet MS/TP
- Automated Demand Response (ADR) offset setpoints
- 22 selectable languages
- Alarm monitoring
- CO2 level colorful notification

Courtesy Buttons



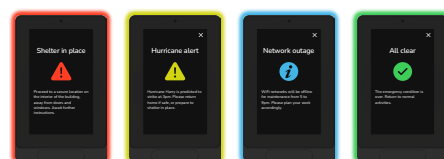
Temporary Occupancy Mode



Configurable Languages



Alert Messages



TRC3500

- > Low voltage fan coil units
- > Mixed voltage fan coil units
- > Zone control

TRC6500

- > Rooftop units
- > Heat pumps
- > Indoor air quality

Touchscreen Room Controllers

TRC3500 Low Voltage Fan Coil Unit and Zone Controller

The TRC3500 is used to control heating or cooling terminal equipment such as valves and other end devices. For mixed-voltage applications, when control of both line-voltage and low-voltage end devices is required, combine the TRC3500 with the VC2300 (230 Vac) mixed voltage relay pack (refer to "VC2300 Mixed Voltage Fan Coil Unit Package" on page 46 or more information).



Product Highlights

- 1 to 3 speed (L-M-H) and ECM fan control
- Auto and smart fan sequence of operation
- Reheat, 2 Pipe or 4 Pipe configuration
- Cooling/heating reheat sequence of operation
- 0-10V, on/off or floating valve control
- Occupied/standby/unoccupied/deadband/heating/cooling setpoint configuration
- Optimize setpoint and start/stop sequences with AI Eco Mode
- Optional proximity sensor
- Optional halo LED backlight that reflects on the wall behind the device
- Device info and granular factory reset
- User profiles and management
- Control lights and blinds with the touchscreen user interface
- Support optional courtesy buttons: Do Not Disturb and Make Up Room
- Notify occupants of events with full-screen alert messages

Description

Dimension	Length: 132.8 mm (5.2 in)
	Width: 82.5 mm (3.2 in)
	Height: 27.9 mm (1.1 in)

Power

Voltage	24 Vac 50/60Hz or 24 Vdc
	up to 6 VA power consumption
	94 VA Max. output load

Communication

Protocol	Stand-alone, wired BACnet MS/TP, or wired Modbus RTU
	Optional Zigbee Pro and 3.0 wireless
	Optional BACnet/IP via Wi-Fi

Part Number	BACnet/MSTP or Modbus RTU	RF (Wi-Fi + Zigbee)	RH Sensor	PIR Motion Sensor	Proximity Sensor	Halo Backlight	Color	Region
SXWTRC3500B11X	✓	✗	✓	✓	✗	✗	White	Global
SXWTRC3500B11W	✓	✓	✓	✓	✓	✓	White	Global (except NAM)
SXWTRC3500B11WA	✓	✓	✓	✓	✓	✓	White	North America
SXWTRC3500B00X	✓	✗	✓	✓	✗	✗	Black	Global
SXWTRC3500B00W	✓	✓	✓	✓	✓	✓	Black	Global (except NAM)
SXWTRC3500B00WA	✓	✓	✓	✓	✓	✓	Black	North America

Touchscreen Room Controllers

TRC6500 Rooftop Unit, Heat Pump and Indoor Air Quality Room Controller

The TRC6500 can be configured to control a broad variety of applications covering all the standard implementations necessary for rooftop HVAC systems. With a CO2 sensor, the TRC6500 can also add fresh air monitoring to the existing functions of a rooftop unit.



Product Highlights

- Auto and smart fan and sequence of operation
- Rooftop units, heat pumps, and indoor air quality
- Economizer
- Configurable as 1H / 1C, 2H / 2C, 3H / 2C and Modulating (Analog) Heat / 2C for rooftop and heat pump units
- CO2 and fresh air inputs for Indoor Air Quality (IAQ) applications
- Occupied/standby/unoccupied/deadband/heating/cooling setpoint configuration
- Optimize setpoint and start/stop sequences with AI Eco Mode
- Optional proximity sensor
- Optional halo LED backlight that reflects on the wall behind the device
- Device info and granular factory reset
- User profiles and management
- Control lights and blinds with the touchscreen user interface
- Support optional courtesy buttons: Do Not Disturb and Make Up Room
- Notify occupants of events with full-screen alert messages

Description

Dimension	Length: 132.8 mm (5.2 in)
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Power

Voltage	24 Vac 50/60Hz or 24 Vdc
	up to 6 VA power consumption
	94 VA Max. output load

Communication

Protocol	Stand-alone, wired BACnet MS/TP, or wired Modbus RTU
	Optional Zigbee Pro and 3.0 wireless
	Optional BACnet/IP via Wi-Fi

Part Number	BACnet/MSTP or Modbus RTU	RF (Wi-Fi + Zigbee)	RH Sensor	PIR Motion Sensor	Proximity Sensor	Halo Backlight	Color	Region
SXWTRC6500B11X	✓	✗	✓	✓	✗	✗	White	Global
SXWTRC6500B11W	✓	✓	✓	✓	✓	✓	White	Global (except NAM)
SXWTRC6500B11WA	✓	✓	✓	✓	✓	✓	White	North America
SXWTRC6500B00X	✓	✗	✓	✓	✗	✗	Black	Global
SXWTRC6500B00W	✓	✓	✓	✓	✓	✓	Black	Global (except NAM)
SXWTRC6500B00WA	✓	✓	✓	✓	✓	✓	Black	North America

Touchscreen Room Controllers

Accessories

General Wireless Solution

BMS Wireless Integration

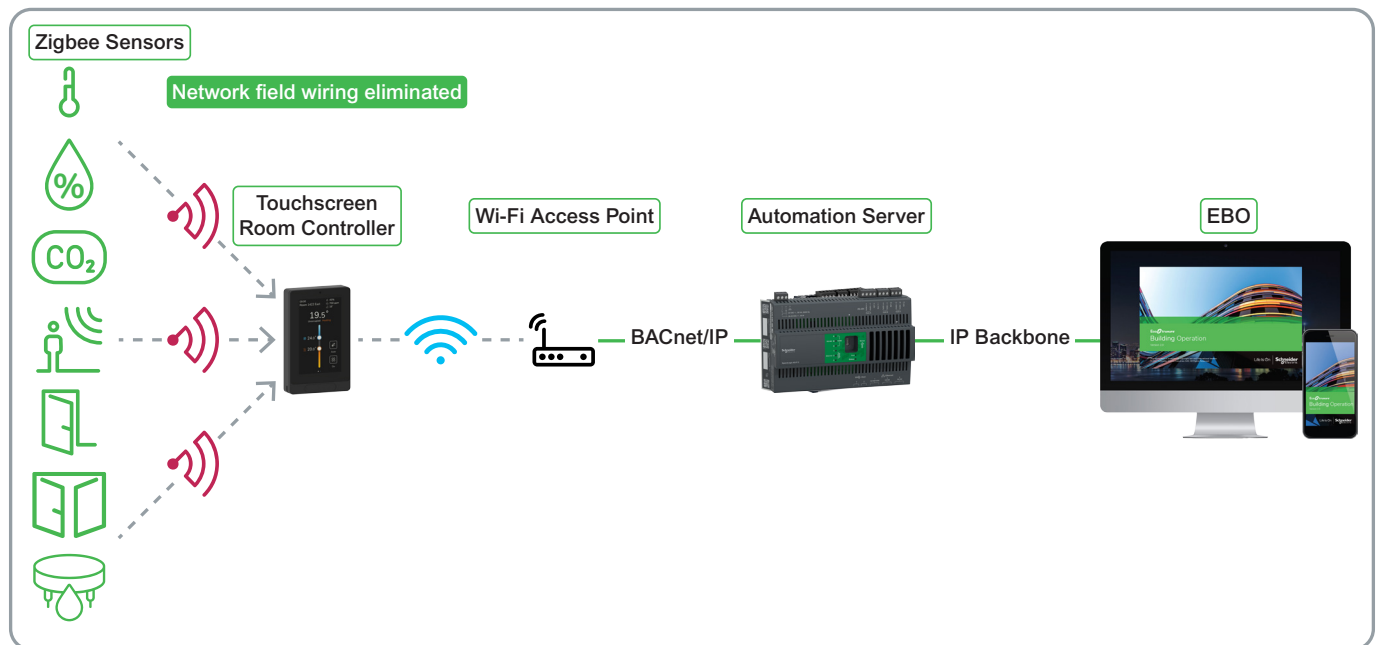
The wireless versions of the Touchscreen Room Controllers provide a simple yet powerful solution that targets such retrofit installations where running new communication wiring is cost prohibitive. The wireless Room Controllers can dramatically reduce project installation costs by reusing the existing control wiring already in place between older electronic thermostats and the terminal equipment. No new network wires are required since the controllers rely on a fully integrated BACnet/IP over Wi-Fi network infrastructure.

EcoStruxure Building Operation

Designed for buildings of any size, EcoStruxure™ Building Operation (EBO) integrates Room Controllers using Automation Servers, providing remote management and supervision of the system through EBO Workstation and Webstation clients. The BACnet/IP over Wi-Fi enables connectivity to AS-P/AS-B Automation Servers.

Zigbee Wireless Network

The wireless versions of the Touchscreen Room Controllers can communicate and pair with a variety of wireless Zigbee sensors for more precise control of HVAC systems.



Touchscreen Room Controllers

Wireless Zigbee Sensors

Touchscreen Room Controllers communicate and pair with a variety of wireless sensors and switches for more precise control of HVAC systems.

	Part Number	Description
	SED-CO2-G-5045	Wireless Zigbee Pro CO2 Sensor with Room Temperature and Humidity
	SED-TRH-G-5045	Wireless Zigbee Pro Sensor with Room Temperature and Humidity
	SED-MTH-G-5045	Wireless Zigbee Pro Motion/Temperature/Humidity Sensor
	SED-WDC-G-5045	Wireless Zigbee Pro Window/Door Sensor
	SED-WLS-G-5045	Wireless Zigbee Pro Water Leakage Sensor

SE8000 Room Controllers

SE8000 Room Controllers

The SpaceLogic™ SE8000 Room Controllers are a sophisticated addition to the Schneider Electric portfolio of room controllers. With rich, customizable features, the SE8000 enables significant energy savings with accurate temperature control in any space. The SE8000 provides all the advanced features and monitoring functions required by modern building automation systems in a simple compact enclosure. An elegantly simple casing combines with configurable screen colors to match decor. Display your own logo and custom messages on screen to reinforce your brand and provide a more enjoyable occupant experience.

Use the setup screens to customize your display preferences including date and time, language, screen brightness, button configuration, environmental information, setpoint adjustment and standby screen. Configure HVAC settings including Automatic Demand Response (ADR), dehumidifier, economizer, heat pump, roof top, fan, inputs and setpoints.

Configurable Languages



Configurable Color Schemes



Configurable User Interface



Common Features

- A configurable sequence of operations
- BMS integration using BACnet or Modbus network protocols
- Configurable scheduler
- Programmable with Lua scripts
- On-board relative humidity sensor with dehumidification control strategy
- Optional on-board PIR motion sensor with occupancy-based control sequences
- Optional Zigbee wireless connectivity to a BMS or CO2/temperature/humidity, window/door, motion and water leak sensors
- Optional CO2 sensor or Zigbee communication plug-in modules
- Firmware updates via USB
- Automated Demand Response (ADR) offset setpoints
- 22 selectable languages
- Alarm monitoring

Orderable Fascias



SE8350	SE8650	SER8350 (with VC3000)	SEZ8250
> Low voltage fan coil units > Mixed voltage fan coil units > Zone control	> Rooftop units > Heat pumps > Indoor air quality	> Line voltage fan coil units > Requires VC3000 Relay Pack	> Variable Air Volume (VAV) units

SE8000 Room Controllers

SE8350 Low Voltage Fan Coil Unit and Zone Controller

The SE8350 is used to control heating or cooling terminal equipment such as valves and other end devices. For mixed-voltage applications, when control of both line-voltage and low-voltage end devices is required, combine the SE8350 with the VC2300 (230 Vac) mixed voltage relay pack (refer to "VC2300 Mixed Voltage Fan Coil Unit Package" on page 46 or more information).



Product Highlights

- 1 to 3 speed (L-M-H) and ECM fan control
- Auto fan and sequence of operation
- Reheat, 2 Pipe or 4 Pipe configuration
- Cooling/heating reheat sequence of operation
- 0-10V, on/off or floating valve control
- Occupied/standby/unoccupied/deadband/heating/cooling setpoint configuration

Facias

This model can be ordered with silver or white fascia, and can be customized with many different fascias. Refer to "Fascias" on page 24 for more information.

Description

Dimension	Length: 120 mm (4.72 in)
	Width: 86 mm (3.38 in)
	Height: 25 mm (1 in)

Power

Voltage	24 Vac 50/60Hz or 24 Vdc
	up to 6 VA power consumption
	94 VA Max. output load

Communication

Protocol	Stand-alone, wired BACnet MS/TP, or wired Modbus RTU
	Optional Zigbee Pro and 3.0 wireless (with VCM8000V5045P plug-in module or on-board Zigbee)

Part Number	BACnet/MSTP or Modbus RTU	RH Sensor	PIR Motion Sensor	Zigbee On-Board	Fascia & Casing
SE8350U0B00	✓	✓	✗	✗*	Silver
SE8350U5B00	✓	✓	✓	✗*	Silver
SE8350U5B00P	✓	✓	✓	✓	Silver
SE8350U0B11	✓	✓	✗	✗*	White
SE8350U5B11	✓	✓	✓	✗*	White
SE8350U5B11P	✓	✓	✓	✓	White

*Note: Zigbee Pro plug-in module is available

SE8000 Room Controllers

SE8650 Rooftop Unit, Heat Pump and Indoor Air Quality Room Controller

The SE8650 can be configured to control a broad variety of applications covering all the standard implementations necessary for rooftop and heat pump HVAC systems. With a CO2 sensor, the SE8650 can also add fresh air monitoring to the existing functions of a rooftop unit.



Product Highlights

- Auto and smart fan and sequence of operation
- Rooftop units, heat pumps, and indoor air quality
- Economizer
- Configurable as 1H / 1C, 2H / 2C, 3H / 2C and Modulating (Analog) Heat / 2C for rooftop and heat pump units
- CO2 and fresh air inputs for Indoor Air Quality (IAQ) applications
- Occupied/standby/unoccupied/deadband/heating/cooling setpoint configuration

Facias

This model can be ordered with silver or white fascia, and can be customized with many different fascias. Refer to "Fascias" on page 24 for more information.

Description

Dimension Length: 120 mm (4.72 in)
Width: 86 mm (3.38 in)
Height: 25 mm (1 in)

Power

Voltage 24 Vac 50/60Hz or 24 Vdc
up to 6 VA power consumption
94 VA Max. output load

Communication

Protocol Stand-alone, wired BACnet MS/TP, or wired Modbus RTU
Optional Zigbee Pro and 3.0 wireless (with VCM8000V5045P plug-in module or on-board Zigbee)

Part Number	BACnet/MSTP or Modbus RTU	RH Sensor	PIR Motion Sensor	Zigbee On-Board	Fascia & Casing
SE8650U0B00	✓	✓	✗	✗*	Silver
SE8650U5B00	✓	✓	✓	✗*	Silver
SE8650U5B00P	✓	✓	✓	✓	Silver
SE8650U0B11	✓	✓	✗	✗*	White
SE8650U5B11	✓	✓	✓	✗*	White
SE8650U5B11P	✓	✓	✓	✓	White

*Note: Zigbee Pro plug-in module is available

SE8000 Room Controllers

SER8350 Line Voltage Fan Coil Unit Controller with VC3000 Relay Pack

The SER8350 and the VC3000 Relay Pack (refer to "VC3000 Relay Pack" on page 45 for more information) provide a two component solution for retrofitting line voltage fan coil unit thermostats without requiring other components such as relays, transformers, controllers, sensors, and network wiring to be upgraded. Existing line voltage wiring between the fan coil unit and temperature controller can be reused further minimizing overall labor and installation costs.



Product Highlights

- 1 to 3 speed (L-M-H) and ECM fan control
- Auto fan and sequence of operation
- Reheat, 2 Pipe or 4 Pipe configuration
- Cooling/heating reheat sequence of operation
- 2 position on/off valve control
- Occupied/standby/unoccupied/deadband/heating/cooling setpoint configuration

Facias

This model can be ordered with silver or white fascia, and can be customized with many different fascias. Refer to "Fascias" on page 24 for more information.

Description

Dimension	Length: 120 mm (4.72 in)
	Width: 86 mm (3.38 in)
	Height: 25 mm (1 in)

Power

Voltage (SER8350)	Typical: 7 Vdc from VC3000
	Alternate: 24 Vac 50/60Hz or 24 Vdc up to 4 VA power consumption
Voltage (VC3000)	90 - 240 Vac universal, 50/60Hz

Communication

Protocol	Stand-alone, wired BACnet MS/TP, or wired Modbus RTU
	Optional Zigbee Pro and 3.0 wireless (with VCM8000V5045P plug-in module or on-board Zigbee)

Part Number	BACnet/MSTP or Modbus RTU	RH Sensor	PIR Motion Sensor	Zigbee On-Board	Fascia & Casing
SER8350A0B00	✓	✓	✗	✗*	Silver
SER8350A5B00	✓	✓	✓	✗*	Silver
SER8350A5B00P	✓	✓	✓	✓	Silver
SER8350A0B11	✓	✓	✗	✗*	White
SER8350A5B11	✓	✓	✓	✗*	White
SER8350A5B11P	✓	✓	✓	✓	White

*Note: Zigbee Pro plug-in module is available

SE8000 Room Controllers

SEZ8250 Variable Air Volume Controller

The SEZ8250 terminal equipment controller provides an easy-to-implement solution for zone temperature control in Variable Air Volume (VAV) applications. An air handling unit and a VAV rooftop unit serve many zones within a building by supplying a varying amount of supply air at a constant temperature. The supply air is discharged into the main duct and branches and are run to individual zones. Each zone has its own Room Controller, which in turn controls a VAV box (damper). This damper opens and closes to maintain the zone setpoint by varying the airflow to the zone.



Product Highlights

- 1 to 3 speed (L-M-H), on/off and ECM fan control
- Parallel and serial fan types and sequence of operations
- Duct and/or baseboard heaters
- Reheat configuration
- Cool/heat zone mode
- Variable Air Volume (VAV) applications:
 - Pressure-independent VAV with a 0-10V differential pressure sensor
 - Pressure-dependent VAV
- On-board configuration interface with balancing
- Occupied/standby/unoccupied/deadband/heating/cooling setpoint configuration
- Fresh air control (requires a CO2 sensor)

Facias

This model can be ordered with silver or white fascia, and can be customized with many different fascias. Refer to "Fascias" on page 24 for more information.

Description

Length: 120 mm (4.72 in)
 Width: 86 mm (3.38 in)
 Height: 25 mm (1 in)

Power

24 Vac 50/60Hz or 24 Vdc
 up to 6 VA power consumption
 94 VA Max. output load

Communication

Stand-alone, wired BACnet MS/TP, or wired Modbus RTU
 Protocol: Optional Zigbee Pro and 3.0 wireless (with VCM8000V5045P plug-in module or on-board Zigbee)

Part Number	BACnet/MSTP or Modbus RTU	RH Sensor	PIR Motion Sensor	Zigbee On-Board	Fascia & Casing
SEZ8250U0B00	✓	✓	✗	✗*	Silver
SEZ8250U5B00	✓	✓	✓	✗*	Silver
SEZ8250U5B00P	✓	✓	✓	✓	Silver
SEZ8250U0B11	✓	✓	✗	✗*	White
SEZ8250U5B11	✓	✓	✓	✗*	White
SEZ8250U5B11P	✓	✓	✓	✓	White

*Note: Zigbee Pro plug-in module is available

SE8000 Room Controllers

Accessories

SE8000 Room Controllers can be adapted to communicate via one of two VCM modules: Wireless Zigbee Pro extended profile or CO2 detection sensor. This allows the SE8000 to pair with a variety of wireless sensors and switches for more precise control of HVAC systems in response to occupancy, as well as to communicate wirelessly for integration with BMS and networks.

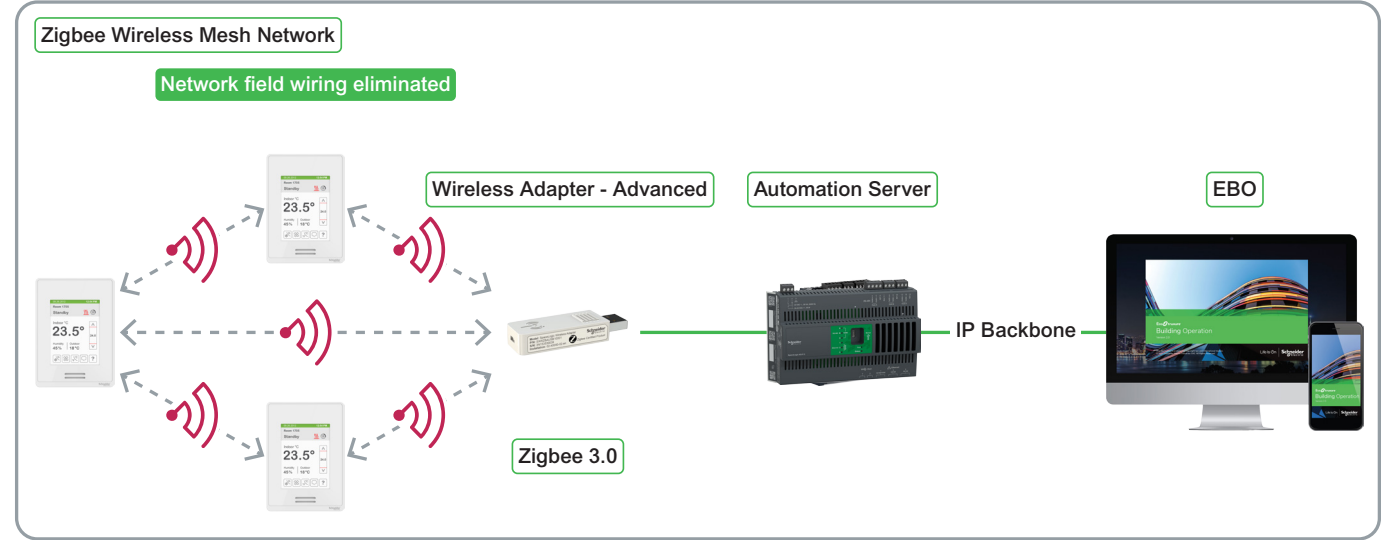
General Wireless Solution

BMS Wireless Integration

The wireless versions of the SE8000 Room Controllers provide a simple yet powerful solution that targets such retrofit installations where running new communication wiring is cost prohibitive. The wireless Room Controllers can dramatically reduce project installation costs by reusing the existing control wiring already in place between older electronic thermostats and the terminal equipment. No new network wires are required since the controllers rely on a fully integrated Zigbee wireless mesh network infrastructure. Connecting wireless SE8000 Room Controller devices into an integrated BMS network is made easy with the SpaceLogic™ Wireless Adapter - Advanced.

EcoStruxure Building Operation

Designed for buildings of any size, EcoStruxure™ Building Operation (EBO) integrates Room Controllers using Automation Servers, providing remote management and supervision of the system through EBO Workstation and Webstation clients. The SpaceLogic™ Wireless Adapter - Advanced enables Zigbee 3.0 wireless connectivity to AS-P/AS-B Automation Servers.



Wireless Adapter - Advanced

	Part Number	Description	Compatibility
	SXWZBAUSB10001	Wireless Adapter - Advanced	AS-P, AS-B, RP-C, RP-V

SE8000 Room Controllers

Wireless Zigbee Sensors

SE8000 Room Controllers communicate and pair with a variety of wireless sensors and switches for more precise control of HVAC systems.

	Part Number	Description
	SED-CO2-G-5045	Wireless Zigbee Pro CO2 Sensor with Room Temperature and Humidity
	SED-TRH-G-5045	Wireless Zigbee Pro Sensor with Room Temperature and Humidity
	SED-MTH-G-5045	Wireless Zigbee Pro Motion/Temperature/Humidity Sensor
	SED-WDC-G-5045	Wireless Zigbee Pro Window/Door Sensor
	SED-WLS-G-5045	Wireless Zigbee Pro Water Leakage Sensor

Wireless Zigbee Pro Communication Module

	Part Number	Description
	VCM8000V5045P	Wireless Zigbee Pro communication module

CO2 Sensor Module

	Part Number	Description
	VCM8001V5045	CO2 sensor module

Base

	Part Number	Description
	SE8000BASEX4	Base thermostat connector

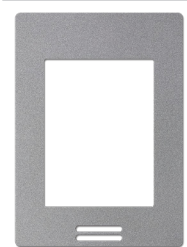
SE8000 Room Controllers

Fascias

The fascias for the SE8000 Room Controllers enable the customization of the exterior appearance of the Room Controllers to match and blend with any decor. The default fascia that comes with SE8000 Room Controllers can be replaced with another snap-on fascia.

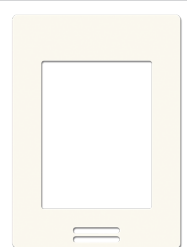
FAS - 00

Silver



FAS - 01

White



FAS - 05

Light tan wood



FAS - 06

Dark brown wood



FAS - 07

Dark black wood



FAS - 10

Brushed steel finish



FAS - 11

Metallic bronze



FAS - 12

High gloss black



Part Number	Description
FAS-00	Silver
FAS-01	White
FAS-05	Light tan wood
FAS-06	Dark brown wood
FAS-07	Dark black wood
FAS-10	Brushed steel finish
FAS-11	Metallic bronze
FAS-12	High gloss black

Some fascias may not be available in all markets. Verify fascia availability in your area.



Reduce energy waste & improve comfort.

Accelerate your return on investment with easy-to-install and commission Room Controllers



SE7000 Room Controllers

SE7000 Room Controllers

The SE7000 Room Controllers offers a variety of application-specific products to increase the comfort of building occupants while reducing energy costs and consumption and accelerating return on investment. These digital controllers give users easy-to-install, thermostat-like functionality that can sense occupancy and adjust setpoint or fan speed control. This wall-mounted controller features an easy-to-read digital display, a built-in commissioning and configuration utility, a temperature sensor and optional humidity control. The SE7000 can be fitted with an optional on-board passive infrared (PIR) motion sensor cover that allows for advanced occupancy strategies, enabling greater energy savings to zones during scheduled events when no occupants are present. The SE7000 provides the advanced features and monitoring functions required by modern building automation systems without the use of software and commissioning tools, and can be easily integrated into most Building Management Systems (BMS).



SE7200	SE7300 and SER7300	SE7600
> Zone control, heating/cooling	> Fan coil, three-speed fan	> Rooftop or heat pump
• Reheat control • Induction units • Chilled beam • Under floor heating • Perimeter radiant heat	• Low voltage, line voltage and mixed-voltage fan coil unit control • Multiple fan speed, heating and cooling stages configurations • Humidity control options • Relay pack accessories for line-voltage and mixed-voltage applications Zone Control • Fin-tube radiators • Cabinet heaters • Radiant panel heaters • Electric re-heat zones • Terminal reheat	• Economizer option • Humidification/dehumidification • Heat pump units • Rooftop, 3 heat/2 cool • Water source with dehumidification, 1 heat/2 cool

SE7000 Room Controllers

SE7200 Communicating and Network-Ready Zone Controllers

The SE7200 is a low voltage zoning terminal equipment controller suitable for heating or cooling hydronic valve and temperature control.

	Part Number	Description	Output	PIR Cover	Communication
	SE7200C5045	Zone Controller Net Ready Floating Output	Floating or on/off	No	Stand-alone (network ready)
	SE7200C5045B	Zone Controller BACnet Floating Output	Floating or on/off	No	BACnet
	SE7200F5045	Zone Controller Net Ready Analog Output	0 - 10 Vdc	No	Stand-alone (network ready)
	SE7200F5045B	Zone Controller BACnet Analog Output	0 - 10 Vdc	No	BACnet

SE7300 Low Voltage Communicating and Network-Ready Fan Coil Unit Controllers

The SE7300 is a low voltage fan coil terminal equipment controller suitable for commercial and hospitality markets. It can also be used as a zone controller or mixed voltage solution (refer to "VC2300 Mixed Voltage Fan Coil Unit Package" on page 46 or more information).

Commercial Interface (Local Override)

	Part Number	Description	Humidity	Output	PIR Cover	Communication
	SE7350C5045	Fan Coil Unit Control with Dehumidification Control Net Ready Floating Output Communication Module	Yes	Floating or on/off	No	Stand-alone (network ready)
	SE7350C5045B	Fan Coil Unit Control with Dehumidification Control BACnet Floating Output Communication Module	Yes	Floating or on/off	No	BACnet
	SE7350F5045	Fan Coil Unit Control with Dehumidification Control Net Ready Analog Output Communication Module	Yes	0 - 10 Vdc	No	Stand-alone (network ready)
	SE7350F5045B	Fan Coil Unit Control with Dehumidification Control BACnet Analog Output Communication Module	Yes	0 - 10 Vdc	No	BACnet

Hotel/Lodging Interface (°C/°F Selection)

	Part Number	Description	Humidity	Output	PIR Cover	Communication
	SE7355C5045	Fan Coil Unit Control with Dehumidification Control Net Ready Floating Output Hotel	Yes	Floating or on/off	No	Stand-alone (network ready)
	SE7355C5045B	Fan Coil Unit Control with Dehumidification Control BACnet Floating Output Hotel	Yes	Floating or on/off	No	BACnet
	SE7355F5045	Fan Coil Unit Control with Dehumidification Control Net Ready Analog Output Hotel	Yes	0 - 10 Vdc	No	Stand-alone (network ready)
	SE7355F5045B	Fan Coil Unit Control with Dehumidification Control BACnet Analog Output Hotel	Yes	0 - 10 Vdc	No	BACnet

SE7000 Room Controllers

SE7300-ECM ECM Fan Coil Unit Controllers

More and more engineers are commonly specifying fan coil units that function with electronically commutated motors, which offer better energy efficiency and reduced operating costs. The SE7300 ECM Fan Coil Unit Controller allows you to capitalize on this additional energy savings by optimizing fan control sequences of electronically commutated motors. The Controller is optimized to offer full proportional operation versus the traditional three-speed tap operation.

Commercial Interface (Local Override)

	Part Number	Description	PIR Cover	Communication
	SE7300F5045B-ECM	ECM Fan Coil Unit Control BACnet Analog Output Communication Module	No	BACnet

Hotel/Lodging Interface (°C/°F Selection)

	Part Number	Description	PIR Cover	Communication
	SE7305F5045B-ECM	ECM Fan Coil Unit Control BACnet Analog Output Hotel	No	BACnet

SER7300 Line Voltage Fan Coil Unit Terminal Equipment Controllers with Relay Packs

The SER7300 and the VC3000 Relay Pack (refer to "Relay Packs" on page 45 for more information) provide a two component solution for retrofitting line voltage fan coil unit thermostats without requiring other components such as relays, transformers, controllers, sensors, and network wiring to be upgraded. Existing line voltage wiring between the fan coil unit and temperature Controller can be reused further minimizing overall labor and installation costs.

Commercial Interface (Local Override)

	Part Number	Description	Humidity	PIR Cover	Communication
	SER7350A5045	Fan Coil Unit Control with Dehumidification Control Net Ready Communication Module	Yes	No	Stand-alone (network ready)
	SER7350A5045B	Fan Coil Unit Control with Dehumidification Control BACnet Communication Module	Yes	No	BACnet

SE7000 Room Controllers

Hotel/Lodging Interface (°C/°F Selection)

	Part Number	Description	Humidity	PIR Cover	Communication
	SE7355A5045	Fan Coil Unit Control with Dehumidification Control Net Ready Hotel	Yes	No	Stand-alone (network ready)
	SE7355A5045B	Fan Coil Unit Control with Dehumidification Control BACnet Hotel	Yes	No	BACnet

SE7600 Communicating and Network-Ready Rooftop Controllers

Primarily designed for use in small to mid-sized commercial building applications, SE7600 Room Controllers can be installed in any building using a standard rooftop or heat pump unit with a requirement for advanced fresh air control. Capable of controlling economizer-free cooling and demand-based ventilation strategies, the SE7600 provides fresh air measurement input right out of the box.

	Part Number	Description	Scheduling	Economizer	Heat/Cool Stages	Humidity	PIR Cover	Communication
	SE7652B5045	Rooftop Local Scheduling / Programmable Controller 2x Heat / 2x Cool Net Ready	Yes	No	2H/2C	No	No	Stand-alone (network ready)
	SE7652B5045B	Rooftop Local Scheduling / Programmable Controller 2x Heat / 2x Cool BACnet	Yes	No	2H/2C	No	No	BACnet
	SE7656B5045	Rooftop Local Scheduling / Programmable Controller + ECO Net Ready	Yes	Yes	2H/2C	No	No	Stand-alone (network ready)
	SE7656B5045B	Rooftop Local Scheduling / Programmable Controller + ECO BACnet	Yes	Yes	2H/2C	No	No	BACnet
	SE7657B5045	Rooftop Local Scheduling / Programmable Controller Net Ready + Humidification / Dehumidification Control	Yes	No	2H/2C	Yes	No	Stand-alone (network ready)
	SE7657B5045B	Rooftop Local Scheduling / Programmable Controller BACnet + Humidification / Dehumidification Control	Yes	No	2H/2C	Yes	No	BACnet

SE7656E Communicating and Network-Ready Indoor Air Quality Controllers

Indoor air quality is increasingly becoming a major concern to businesses, building managers, tenants, and employees because of its direct impact on the comfort, well-being, and productivity of the building's occupants. The SE7656E indoor air quality controller, along with a CO2 sensor, is a cost-effective solution capable of controlling economizer-free cooling and demand-based ventilation strategies, while providing a fresh air measurement input. When connected to a building automation system, the controller can monitor and verify the CO2 and fresh air levels, ensuring optimal air quality and energy efficiency.

	Part Number	Description	Scheduling	Heat/Cool Stages	PIR Cover	Communication
	SE7656E5045	Indoor Air Quality Local Scheduling / Programmable Controller 2x Heat / 2x Cool + ECO Net Ready	Yes	2H/2C	No	Stand-alone (network ready)
	SE7656E5045B	Indoor Air Quality Local Scheduling / Programmable Controller 2x Heat / 2x Cool + ECO BACnet	Yes	2H/2C	No	BACnet

SE7000 Room Controllers

SE7652F Communicating and Network-Ready Rooftop Controllers for Modulating Heat

The SE7652F rooftop terminal equipment controller with modulating heat can make your building more comfortable while still meeting the ventilation codes for minimum building fresh air requirements. The easy-to-install SE7652F includes modulating heat functionality, which allows the addition of an extra supply air temperature control loop to better control and condition the supply air levels for a more comfortable occupant environment.

	Part Number	Description	Scheduling	Heat/Cool Stages	PIR Cover	Communication
	SE7652F5045	Modulating Heat Application Local Scheduling / Programmable Controller 1x Heat / 2x Cool Net Ready	Yes	1H (analog) / 2C	No	Stand-alone (network ready)
	SE7652F5045B	Modulating Heat Application Local Scheduling / Programmable Controller 1x Heat / 2x Cool BACnet	Yes	1H (analog) / 2C	No	BACnet

SE7652H Communicating and Network-Ready Heat Pump Controllers

Primarily designed for use in small to mid-sized commercial building applications, SE7652H Room Controllers can be installed in any building using a standard heat pump unit with a requirement for advanced fresh air control. Capable of controlling economizer-free cooling and demand-based ventilation strategies, the SE7652H provides fresh air measurement input right out of the box.

	Part Number	Description	Scheduling	Heat/Cool Stages	PIR Cover	Communication
	SE7652H5045	Heat Pump Local Scheduling / Programmable Controller 3x Heat / 2x Cool Net Ready	Yes	3H/2C	No	Stand-alone (network ready)
	SE7652H5045B	Heat Pump Local Scheduling / Programmable Controller 3x Heat / 2x Cool BACnet	Yes	3H/2C	No	BACnet

SE7652W Water Source Heat Pump Controllers

The SE7652W water source heat pump controller (with dedicated dehumidification sequences) provides exceptional control of water source heat pumps for commercial buildings. Common indoor air quality issues such as mold, mildew, condensation, poor occupant comfort, and overall building health can be effectively resolved in an energy-efficient manner. Simple to install and commission, this wall-mounted device monitors water temperature, as well as other points, offering added value without the additional costs related to more complex systems.

	Part Number	Description	Scheduling	Heat/Cool Stages	PIR Cover	Communication
	SE7652W5045	Water Source Heat Pump Local Scheduling / Programmable Controller 3x Heat / 2x Cool Net Ready	Yes	3H/2C	No	Stand-alone (network ready)
	SE7652W5045B	Water Source Heat Pump Local Scheduling / Programmable Controller 3x Heat / 2x Cool BACnet	Yes	3H/2C	No	BACnet

SE7000 Room Controllers

SEZ7000 Commercial Zoning Systems Variable Volume and Temperature (VVT)

The SEZ7000 commercial zoning system has been specifically designed to bring a simple scalable solution to mid-market commercial applications without the cost associated with a typical DDC zoning system. Models include rooftop and heat pump units controlling analogue heat, CO2 levels, and indoor air quality. Zoning controllers that provide floating and analogue damper control are also available. A single central controller unit can support up to 32 individual zone controllers.

Commercial Zoning System - Zone Controllers

	Part Number	Description	Output	PIR Cover	Communication
	SEZ7260C5045B	Zone System Control BACnet 2x Floating - Variable Volume & Temperature (VVT) Zone	Floating or on/off	No	BACnet
	SEZ7260C5045W	Zone System Control Zigbee Wireless 2x Floating - Variable Volume & Temperature (VVT) Zone	Floating or on/off	No	Wireless
	SEZ7260F5045B	Zone System Control BACnet 2x Analog - Variable Volume & Temperature (VVT) Zone	0 - 10 Vdc	No	BACnet
	SEZ7260F5045W	Zone System Control Zigbee Wireless 2x Analog - Variable Volume & Temperature (VVT) Zone	0 - 10 Vdc	No	Wireless

Commercial Zoning System - Rooftop Master Controllers

	Part Number	Description	Heat/Cool Stages	IAQ	Economizer	Modulating Heat	Communication
	SEZ7656E1045B	Zone System Control BACnet 2x Heat / 2x Cool Indoor Air Quality - Variable Volume & Temperature (VVT) Master	2H/2C	Yes	Yes	No	BACnet
	SEZ7656E1045W	Zone System Control Zigbee Wireless 2x Heat / 2x Cool Indoor Air Quality - Variable Volume & Temperature (VVT) Master	2H/2C	Yes	Yes	No	Wireless
	SEZ7656F1045B	Zone System Control BACnet 1x Heat / 2x Cool Modulating Heat Application - Variable Volume & Temperature (VVT) Master	1H/2C	No	No	Yes	BACnet
	SEZ7656F1045W	Zone System Control Zigbee Wireless 1x Heat / 2x Cool Modulating Heat Application - Variable Volume & Temperature (VVT) Master	1H/2C	No	No	Yes	Wireless
	SEZ7656R1045B	Zone System Control BACnet 2x Heat / 2x Cool Rooftop - Variable Volume & Temperature (VVT) Master	2H/2C	No	No	No	BACnet
	SEZ7656R1045W	Zone System Control Zigbee Wireless 2x Heat / 2x Cool Rooftop - Variable Volume & Temperature (VVT) Master	2H/2C	No	No	No	Wireless

SE7000 Room Controllers

Commercial Zoning System - Heat Pump Controllers

	Part Number	Description	Communication
	SEZ7656H1045B	Zone System Control BACnet Heat Pump - Variable Volume & Temperature (VVT) Master	BACnet
	SEZ7656H1045W	Zone System Control Zigbee Wireless Heat Pump - Variable Volume & Temperature (VVT) Master	Wireless

VH7200 Humidistats

Schneider Electric humidistats offer exceptional control of both humidification and dehumidification equipment found in typical commercial buildings. Models with advanced built-in functions such as a modulating high limit and outdoor temperature humidity setpoint reset are also available.

All models contain a binary input, which can be set by the user to monitor an electrode humidifier canister service status or may be used as a general purpose service indicator.

The VH7200 humidity controller family is specifically designed for control of humidification and dehumidification equipment such as steam header direct injection, desiccant wheel, or stand-alone humidification / dehumidification equipment. The product features a complete embedded humidity control solution with an intuitive backlit LCD display that walks the installer through the configuration steps, making the process extremely simple. Accurate relative humidity control is achieved due to the product's unique PI time proportional control algorithm, which virtually eliminates humidity offset associated with traditional, differential-based humidity controllers.

	Part Number	Description	Humidification Output	Dehumidification Output
	VH7200A1000	Model with Outdoor Reset only	On/Off 24 Vac	On-Off 24 Vac
	VH7270F1000	Model with Outdoor Reset & Proportional High Limit	0-10 Vdc	On-Off 24 Vac
	VH7270K1000	Model with Outdoor Reset & Proportional High Limit	0-10 Vdc & On/Off 24 Vac	On-Off 24 Vac

VT7225 Modulating Electric Heat Controllers

The VT7225 controllers are microcomputer-based, proportional and integral (PI) devices with one analog 0 to 10 Vdc output, one 8 Vdc and one 24 Vac proportioning pulsed output. The analog 0 to 10 Vdc modulating output can control the room or supply temperature by modulating directly a 0 to 10 Vdc SCR power controller. The Vdc and Vac pulsed outputs can control the room or supply temperature by modulating directly 4-32 Vdc triggered solid state relays (SSR's) using a time proportioning control algorithm on a 1 second time cycle.

	Part Number	Description	Output	PIR Cover	Communication
	VT7225	Room Controller Heater Analog and PWM Output. Replaces: C1025C-1000, C1025F-1000 & T920.	0-10 Vdc or PWM	No	Stand-alone (network ready)

SE7000 Room Controllers

Accessories

From wired to wireless systems, remote sensors to communication boards and covers, SE7000 Room Controllers can be tailored for any application-specific needs.

Covers

All SE7000 Room Controllers are compatible with passive infrared (PIR) cover accessories. Room controllers equipped with a PIR cover provide advanced active occupancy logic, which will automatically switch occupancy levels from 'occupied' to 'stand-by' and 'unoccupied' as appropriate. This built-in intelligence provides energy savings during occupied hours without sacrificing occupant comfort.



Part Number	Description	Compatibility
COV-BC-5031	Kit cover blind	SE7000 models
COV-FCU-C-5031	Cover for commercial room controllers	SE7300 models
COV-FCU-L-5031	Cover for hotel room controllers	SE7300 models
COV-RTUHP-5031	Cover for room controllers	SE7600 models
COV-ZN-5031	Cover for room controllers	SE7200 models
COV-PIR-BC-5031	PIR kit cover blind	SE7000 models
COV-PIR-FCU-C-5031	PIR cover for commercial room controllers	SE7300 models
COV-PIR-FCU-L-5031	PIR cover for hotel room controllers	SE7300 models
COV-PIR-RTUHP-5031	PIR cover for room controllers	SE7600 models
COV-PIR-ZN-5031	PIR cover for room controllers	SE7200 models

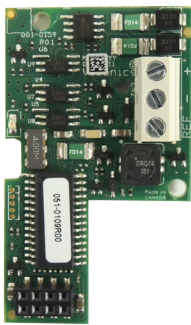
SE7000 Room Controllers

Communication Adapters

SE7000 Room Controllers are network ready, designed to accept the addition of communication. With a network card available for field upgrade, your system can be networked to an integrated building management system for the most advanced control and functionality.

In the Part Number, please note that:

- W: Legacy Zigbee for replacement.
- P: Zigbee Pro, compatible with all room controllers.



Part Number	Description	Compatibility
VCM7000V5000W	Wireless Communication Card - 7000 - Zigbee proprietary wireless retrofit communication module	7000 Room Controllers (72, 73, R73, and 76)
VCM7000V5000P	Wireless Communication Card - 7000 - Zigbee Pro extended profile retrofit communication module	7000 Room Controllers (72, 73, R73, 76xx(B,H) and 76x7(B))
VCM7260Z5000B	BACnet replacement communication module	7260(C,F)
VCM7260Z5000W	Zigbee replacement communication module	7260(C,F)
VCM7300T5000B	Communication Module BACnet 73 with Relay Module - BACnet retrofit communication module	R73xx(A)
VCM7300V5000B	BACnet Communication Card - 7200/7300 - BACnet retrofit communication module	7200(C,F) and 73xx(C,F)
VCM7600W5000B	BACnet retrofit communication module	76xx(W,E,F)
VCM7600W5000W	Zigbee proprietary wireless retrofit communication module	76xx(W,E,F)
VCM7600V5000B	BACnet Communication Card - BACnet retrofit communication module	76xx(B,H)
VCM7607V5000B	BACnet Communication Card - 76X7 -BACnet retrofit communication module	76x7(B)
VCM7656Z5000B	BACnet replacement communication module	Z7656(E,F,R,H)
VCM7656Z5000W	Zigbee replacement communication module	Z7656(E,F,R,H)

SE7000 Room Controllers

Remote Sensors

Room Sensors

Our discreet line of wall mount room sensors is used for advanced room temperature sensing. Each model is equipped with three thermistors and two dip switches for various averaging combinations, with a temporary override key and an occupancy LED available in the advanced model.



Part Number	Description
S3010W1031	Room sensor - Remote room sensing 3 thermistors with 2 dip switches are provided with each sensor for various averaging combinations
S3020W1031	Room sensor with temporary override key and occupancy LED - Remote room sensing with override key and occupancy LED 3 thermistors with 2 dip switches are provided with each sensor for various averaging combinations

Duct-Mounted Temperature Sensors



Part Number	Description
S1010D1000	Duct-mounted changeover sensor 10K - Change Over Duct Sensing - Mounting: Through hole in duct, with eyelet
S1010E1000	Capsule type temperature sensor - Remote sensing easy to dissimulate for indoor and outdoor use - Water temperature sensing strapped on pipe or in an immersion well



Duct & Outside Air Sensors



Part Number	Description
S2000D1000	Duct supply air sensor with junction box - Remote return air temperature sensing with the sensor mounted on the return air duct - Outside air temperature sensing with the sensor installed in the fresh air plenum - Supply air temperature sensor
S2020E1000	Outdoor air supply sensor - Outside air temperature sensing with the sensor installed directly exposed to the elements - Sensor uses a water resistant NEMA 4 PVC enclosure for outdoor applications



Changeover Sensor



Part Number	Description
022-0114	Sensor changeover 47K

SE7000 Room Controllers

Electronic Heat Control

Schneider Electric turns up the heat when it comes to electric heat controls. Choose between solid state relays, solid state relays with integrated heatsink, SCR power controls with various choice of analog input signals, electronic relays for electric baseboard heaters and vernier low voltage step controllers.

R810

The R810 power switches have been designed for safe and reliable control of electric heat loads. This broad line of value priced products is used by most major North American duct heater manufacturers. The appropriate PWM or pulsed input signal can be provided by a DDC panel or a VT7225 thermostat.



Part Number	Voltage	Phase	Current	Heatsink Length	Weight (lbs)
R810-621-REV2	600 Volts	1	25 Amp	3.0 " (76mm)	1.80
R810-623-REV2	600 Volts	3	25 Amp	6.5 " (165mm)	2.65
R810-641-REV2	600 Volts	1	45 Amp	6.5 " (165mm)	2.40
R810-643-REV2	600 Volts	3	45 Amp	10.0 " (254mm)	3.70
R810-671-REV2	600 Volts	1	75 Amp	10.0 " (254mm)	3.50

R820

The R820 SCR power controls are designed for cost effective, precise modulation of electric loads for most electric heating applications (applicable on resistive loads only).

The R820 consists of SCR power controls, c/w factory assembled heatsink for surface or in-panel mounting.



Part Number	Voltage	Phase	Current
R820-621-REV2	24 - 600 Volts	1	25 Amp
R820-623-REV2	24 - 600 Volts	3	25 Amp
R820-641-REV2	24 - 600 Volts	1	45 Amp
R820-643-REV2	24 - 600 Volts	3	45 Amp
R820-671-REV2	24 - 600 Volts	1	75 Amp
R820-PCB-A01	24 Vac Electronic PCB	1 or 3	---

R850V

The R850V step controller is designed for cost effective, precise modulation of multi-stage control application. A common application is a multi-step electric duct heater.

An integrated vernier control output will give a precise and full modulation of the load from 0 to 100% of the total capacity.



Part Number	Description
R850V-8	8-stage unit

If more than 8 stages are required, the R850V-8 can be used as a master unit with another R850V as a slave unit. Adding another unit can bring the total step number up to 16.

SE7000 Room Controllers

R851B

The R851B step controller is designed for cost effective, precise modulation of multi-stage control application. A common application is a multi-step electric boiler.

An integrated vernier control output will give a precise and full modulation of the load from 0 to 100% of the total capacity.

	Part Number	Description
	R851B-8	8-stage unit

If more than 8 stages are required, the R851B-8 can be used as a master unit with another R851B as a slave unit. Adding another unit can bring the total step number up to 16.

R851V

The R851V step controller is designed for cost effective, precise modulation of multi-stage control application. A common application is a multi-step electric duct heater.

An integrated vernier control output will give a precise and full modulation of the load from 0 to 100% of the total capacity.

	Part Number	Description
	R851V-8	8-stage unit

If more than 8 stages are required, the R851V-8 can be used as a master unit with another R851V as a slave unit. Adding another unit can bring the total step number up to 16.

SE7000 Room Controllers

Specifications

Room Controllers

SE7200 and VT7225

SE7300

SE7600



Agency approval	CE, C-Tick, UL	CE, C-Tick, UL	CE, C-Tick, UL
Weight	0.34 kg (0.75 lb)	0.34 kg (0.75 lb)	0.34 kg (0.75 lb)
Dimensions (H x W x D)			
Non-PIR model	125 mm x 87 mm x 30 mm (4.92" x 3.41" x 1.16")	125 mm x 87 mm x 30 mm (4.92" x 3.41" x 1.16")	125 mm x 87 mm x 30 mm (4.92" x 3.41" x 1.16")
PIR model	125 mm x 87 mm x 38 mm (4.92" x 3.41" x 1.47")	125 mm x 87 mm x 38 mm (4.92" x 3.41" x 1.47")	125 mm x 87 mm x 38 mm (4.92" x 3.41" x 1.47")
Power supply	19 - 30 Vac (50/60 Hz)	19 - 30 Vac (50/60 Hz)	19 - 30 Vac (50/60 Hz)
Outputs			
Analog	0 - 10 Vdc	0 - 10 Vdc	0 - 10 Vdc
Triac	30 Vac, 1 amp	30 Vac, 1 amp	30 Vac, 1 amp
Operating conditions	0 - 50 °C (32 - 122 °F) 0 - 95% RH (Non-condensing)	0 - 50 °C (32 - 122 °F) 0 - 95% RH (Non-condensing)	0 - 50 °C (32 - 122 °F) 0 - 95% RH (Non-condensing)
Temperature sensor type	10K Type 2	10K Type 2	10K Type 2
Temperature sensor accuracy	± 0.5 °C (± 0.9 °F) @ 21 °C (70 °F)	± 0.5 °C (± 0.9 °F) @ 21 °C (70 °F)	± 0.5 °C (± 0.9 °F) @ 21 °C (70 °F)
Humidity sensor type*	N/A	Single point calibrated bulk polymer type sensor	Single point calibrated bulk polymer type sensor
Humidity sensor read range*	N/A	10 - 90% RH (Non-condensing)	10 - 90% RH (Non-condensing)
Humidity sensor accuracy*	N/A	± 5% @ 20 - 80% RH (Non-condensing)	± 5% @ 20 - 80% RH (Non-condensing)
Dehumidification setpoint range*	N/A	30 to 95% RH	30 to 95% RH
Economizer accuracy*	N/A	N/A	± 3% typical

* Available with selected models.

SE7000 Room Controllers

Remote Sensors

All Sensors

	Sensor type	10 K ohm type 2 NTC thermistor
	Maximum wire length	1,525m (5000ft) for 24 GA wire and up

Room Sensors

	Operating conditions	0 °C to 50 °C (32 °F to 122 °F) 0% to 95% RH non-condensing
	Storage conditions	-30 °C to 50 °C (-22 °F to 122 °F) 0% to 95% RH non-condensing
	Dimensions	125 mm x 86 mm x 29 mm (4.94" x 3.38" x 1.13")
	Approximate shipping weight	155 grams (0.34 lbs)
	Enclosure material	ABS - FRI [WT1337V] UV stabilized

Duct-Mounted Temperature Sensor

	Operating conditions	Up to 85 °C (185 °F) 0% to 95% RH non-condensing
	Sensing bulb type	Plastic heat shrink
	Wire length	305mm (12")
	Probe length and diameter	114mm (4-1/2") and 6mm (1/4")

Duct Supply Air Sensor

	Operating conditions	-40 °C to 50 °C (-40 °F to 122 °F) 0% to 95% RH non-condensing
	Storage conditions	-40 °C to 50 °C (-40 °F to 122 °F) 0% to 95% RH non-condensing
	Approximate shipping weight	300 grams (0.7 lbs)
	Probe tip plastic type	Fire retarding grade "HB" ABS

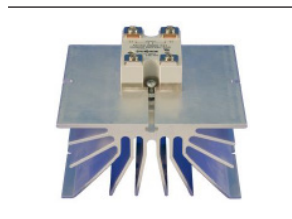
Outdoor Air Supply Sensor

	Operating conditions	-40 °C to 50 °C (-40 °F to 122 °F) 0% to 95% RH non-condensing
	Storage conditions	-40 °C to 50 °C (-40 °F to 122 °F) 0% to 95% RH non-condensing
	Approximate shipping weight	500 grams (1.1 lbs)
	Enclosure plastic type	NEMA 4 PVC

SE7000 Room Controllers

Electronic Heat Control

R810 Power Switching Modules



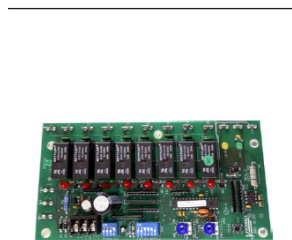
Operating conditions	0 °C to 80 °C (32 °F to 176 °F) 0% to 95% RH non-condensing
Control signal	4-32 Vdc time proportioning signal

R820 Power Controls



Operating conditions	0 °C to 80 °C (32 °F to 176 °F) 0% to 95% RH non-condensing
Thermostatic protection	Self-resetting. Auto shut off when SCR ambient temp. is above 82°C (180°F)
Control signal	0 to 10 Vdc into 10 KΩ minimum
Power supply	24 Vac -15%, +10% 50/60 Hz; 2 VA. Use a Class 1 (properly fused) or Class 2, CSA or UL recognized transformer

R850V Step Controller



Operating conditions	0 °C to 80 °C (32 °F to 176 °F) 0% to 95% RH non-condensing
Relay outputs	Isolated relay 30 Vac @ 1.0 amps. max. per output, up to a maximum of 4.0 amps. total per R850V controller.
Vernier stage	Vdc pulsed: 6 Vdc, 30 mA max. 0 to 10 Vdc 5 mA max.
Control signal	0 to 10 Vdc into 10 KΩ minimum
Power supply	24 Vac -15%, +10% 50/60 Hz; 4 VA. Use a Class 1 (properly fused) or Class 2, CSA or UL recognized transformer for power supply & relay outputs.

R851B Step Controller



Operating conditions	0 °C to 80 °C (32 °F to 176 °F) 0% to 95% RH non-condensing
Relay outputs	Pilot duty: • 24 - 120 Vac – 720 VA • 240 Vac – 690 VA Motor load: • 120 Vac – 1 HP • 240 Vac – 2 HP
Vernier stage	0 to 10 Vdc 5 mA max.
Control signal	0 to 10 Vdc into 10 KΩ minimum
Power supply	24 Vac -15%, +10% 50/60 Hz; up to 18 VA. Use a Class 1 (properly fused) or Class 2, CSA or UL recognized transformer for power supply & relay outputs.
UL recognized	File # E212649

SE7000 Room Controllers

R851V Step Controller



Operating conditions	0 °C to 80 °C (32 °F to 176 °F) 0% to 95% RH non-condensing
Relay outputs	Pilot duty: • 24 - 120 Vac – 720 VA • 240 Vac – 690 VA Motor load: • 120 Vac – 1 HP • 240 Vac – 2 HP
Vernier stage	0 to 10 Vdc 5 mA max. Vdc pulsed, 6 Vdc, 30 mA max
Control signal	0 to 10 Vdc into 10 KΩ minimum
Power supply	24 Vac -15%, +10% 50/60 Hz; up to 18 VA. Use a Class 1 (properly fused) or Class 2, CSA or UL recognized transformer for power supply & relay outputs.
UL recognized	File # E212649

Humidistats

VH7200 Humidistats



Humidistat power requirements	19-30 Vac 50 or 60 Hz; 2 VA (RC & C) Class 2
Operating conditions	0 °C to 50 °C (32 °F to 122 °F) 0% to 95% R.H. non-condensing
Storage conditions	-30 °C to 50 °C (-22 °F to 122 °F) 0% to 95% R.H. non-condensing
Resolution	Temperature: ± 0.1 °C (± 0.2 °F) Humidity: ± 0.1%
Control accuracy	Humidity: ± 5% RH from 20 to 100% RH at 50 to 90°F (10 to 32°C)
Humidification setpoint range	10% RH to 90% RH
Dehumidification setpoint range	15% RH to 95% RH
Outdoor air temperature range	-40 °C to 50 °C (-40 °F to 122 °F)
Binary inputs	Relay dry contact only across "Scom" and "DI1" terminals
Contact output rating	Each relay output: 30 Vac, 1 Amp. Max. / 30 Vac, 3 Amp. in-rush
Analog output rating	0 to 10 Vdc into 2KΩ resistance minimum
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)



Check in to comfort. Check out the savings.

Hotel guest comfort meets energy savings with
our Room Controllers

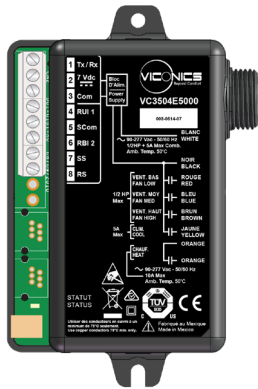


Relay Packs

Relay Packs

VC3000 Relay Pack

A compact and easy-to-install Relay Pack for line voltage fan coil units, the VC3000 is used with the SER7300 and SER8350 Room Controllers as a two-component retrofit option.



Features

The VC3000 Relay Pack features an on-board universal voltage power supply and line voltage relays which directly drive fractional horsepower fan motors and valves. This eliminates the need to install and wire costly pilot relays and transformers.

No previous building automation training is required for the installation and commissioning process.

Existing line voltage wiring between the fan coil unit and temperature Controller can be reused further minimizing overall labor and installation costs.

Description	
Dimension	Height: 12cm/4.72in / Width: 8.6cm/3.38in / Depth: 2.5cm/1in
Power	
Voltage output to SER7300 and SER8350	7.0 Vdc +/- 10% 2.4 watts minimum

Part Number	Description
VC3300E5000	Fan Coil Unit Relay Pack 3 slave fan speed relay outputs
VC3400E5000	Fan Coil Unit Relay Pack 3 fan speed relay outputs 1 valve relay output 1 smart Vdc output
VC3404E5000	Fan Coil Unit Relay Pack 3 fan speed relay outputs 1 valve relay output 1 smart Vdc output 4 inputs
VC3500E5000	Fan Coil Unit Relay Pack 3 fan speed relay outputs 2 valve relay outputs
VC3504E5000	Fan Coil Unit Relay Pack 3 fan speed relay outputs 2 valve relay outputs 4 inputs
VC3514E5000	Fan Coil Unit Relay Pack 3 fan speed relay outputs 2 valve relay outputs 4 inputs 1 occupancy output

Relay Packs

VC2300 Mixed Voltage Fan Coil Unit Package

A compact and easy-to-install Relay Pack for fan control and mixed voltages with 24 Vac transformer units, to be used in combination with SE7300, SE8350 and TRC3500 Low Voltage (24 Vac) Fan Coil Unit (FCU) Room Controllers as a two-component mixed voltage solution.



Mixed Voltage Application

In combination with the SE7300, SE8350 and TRC3500 Low Voltage (24 Vac) Fan Coil Unit (FCU) Room Controllers, the VC2300 allows control of a fan-coil requiring mixed voltage for the following:

- Line voltage for the 3-speed fan control (230 Vac unit)
- Low voltage for valve control
- LED indication of relay status

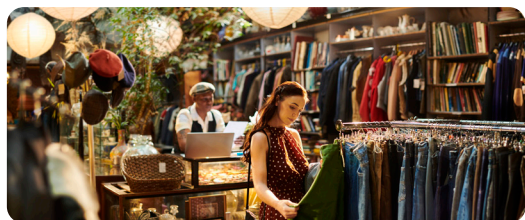
Description	
Dimension	Height: 5cm/2in / Width: 14cm/5.5in / Depth: 17cm/6.7in
Power	
Voltage	220-240 Vac 1 phase 50/60Hz
Contacts ratings	Resistive: 7A / 1680 W ; Motor and or compressor: ¼ Hp / 10 LRA / 2.5 FLA approved for 30,000 operations at 240 Vac
24 Vac low voltage power output	0.5A, 12 VA max
Outputs	
Number of outputs	3 on/off outputs

Part Number	Description
VC2300E5000	Fan coil relay board 230 Vac for mixed voltages with 24 Vac transformer



Commercial buildings

Room Controllers allow users to save costs and energy while providing a comfortable environment for maximum productivity. The system can be modified on site to match your specific energy conservation needs.



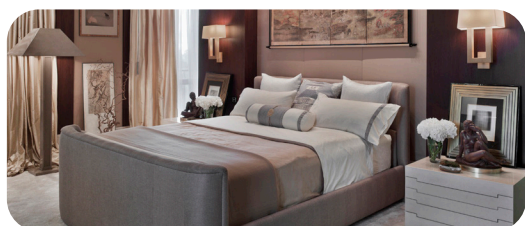
Retail

Enhance your system operation and efficiency with the Room Controllers. From a stand-alone device to simplified building management, Schneider Electric Room Controllers are ideal for your ever-changing location.



Healthcare

Gain full room control of your environment, whether it's a patient room, waiting room, or anywhere within your facility. Our Room Controllers give you the flexibility to customize and configure based on your needs.



Hotels/lodging

Guest comfort meets energy efficiency with Room Controllers. The intuitive user interface allows guests to control their own environments while our occupancy sensor and simple programming ensure efficiency.



Education

Whether it's a large campus with multiple buildings or a single primary school, the Room Controllers allow for scalability to control a wide variety of environments through occupied and unoccupied periods.

