

SER7300 and SC3000 Series



Fan coil terminal equipment controllers with relay packs

Upgrading an existing fan coil unit controlled by a line-voltage thermostat is an expensive option with poor return on investment. Extra components to upgrade, such as relays, transformers, controllers, sensors, and network wiring, caused proposals to be quickly dismissed. This resulted in fan coil units being controlled by stand-alone thermostats with no capacity for energy optimisation. As such, features available such as set point limitations, advanced occupancy routines, and other functions offered by central iBMS systems were simply not an option.

Now, a new cost-effective solution is available for upgrading line-voltage fan coil unit thermostats. The new Schneider Electric™ fan coil unit solution requires installation of only two components; the SER7300 terminal equipment controller and the SC3000 relay pack. This allows reuse of existing line-voltage wiring between the fan coil unit and temperature controller, thereby reducing overall costs, labour, and installation time for both retrofit and new construction control projects.

The SC3000 relay pack features an onboard universal voltage power supply and line-voltage relays, which directly drives fractional horsepower fan motors and valves. This eliminates the need to install and wire costly pilot relays and transformers.

The SER7300 wall mounted controller features a digital display and built-in commissioning and configuration utility, temperature sensor, and optional humidity and passive infra red occupancy sensor (PIR). No previous building management training is required for the easy installation and commissioning process, which can be completed in fifteen minutes, reducing overall installation time and providing increased savings.

The SER7300 terminal equipment fan coil unit controllers are available as stand-alone, network ready, BACnet® MS/TP or wireless ZigBee® networked models. The stand-alone network ready models can be easily retrofitted on-site with our network communication modules for BACnet MS/TP or wireless ZigBee protocols. The Schneider Electric stand-alone network-ready controllers allow for easy expandability, which ensures longevity and the possibility for future system upgrades.

Product highlights:

SER7300 Series fan coil terminal equipment controllers include:

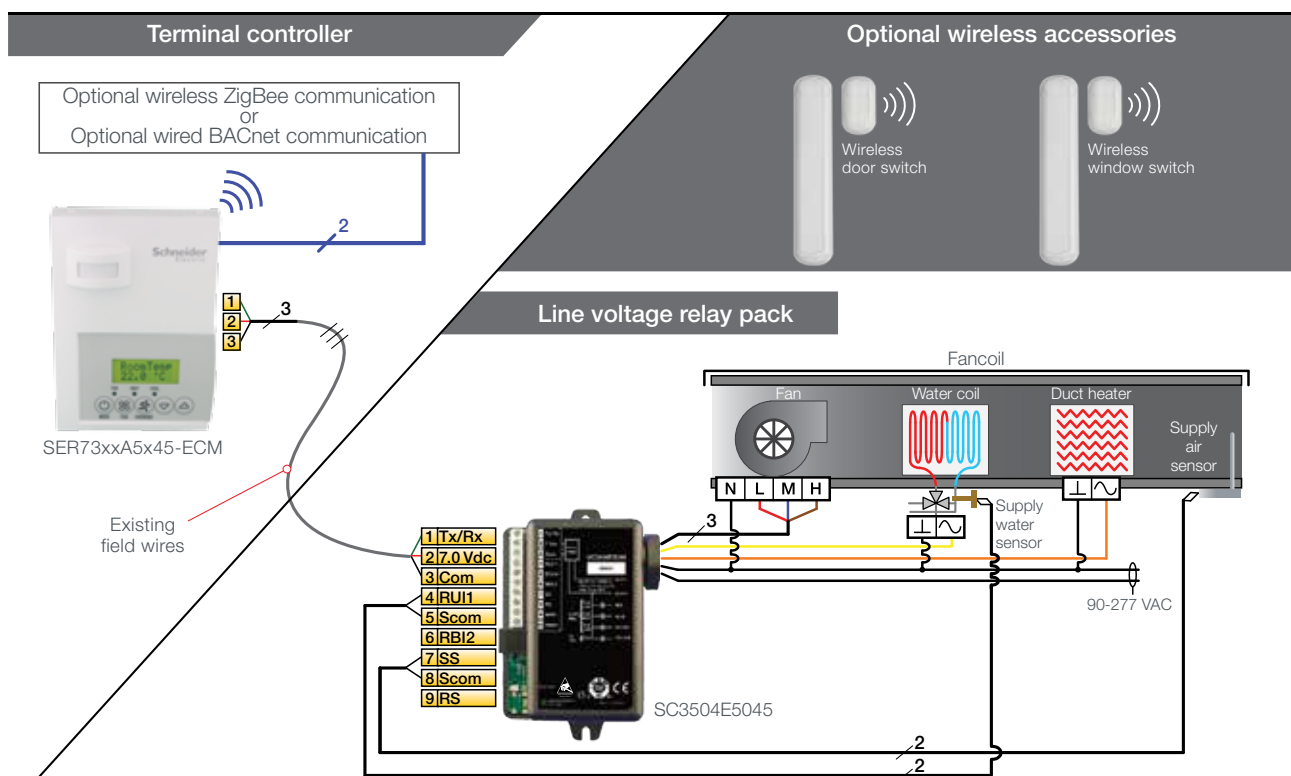
- Suitable for commercial and hospitality markets and systems
- Available as a stand-alone unit with network ready functionality
- Available with ZigBee wireless mesh network or BACnet MS-TP communication module
- Humidity sensor with on-board dehumidification strategy (model dependent)
- Available with optional or factory installed passive infrared (PIR) occupancy sensor cover
- Advanced occupancy functions for commercial and lodging applications
- Available with optional wireless door and window switches (compatible with wireless communicating models only)
- Configurable fan sequence operation
- On-board configuration interface utility

SC3000 Series line-voltage switching relay pack includes:

- Extremely compact design
- Line powered from 90 to 277 VAC, 50/60 Hz
- Wire-leads for line-voltage connections
- Direct line switching of fan speed and valves
- Directly switches single phase electric resistive heater up to 10 amps
- Dedicated supply air sensor for monitoring (model dependent)
- Dedicated return air sensor for control (model dependent)
- Two extra monitoring binary inputs (model dependent)
- Extra SSR output for low cost electric heat modulation (model dependent)

* Note: Please visit <http://schneider-electric.com/buildings> for more information and to access the Room Controller Selection Tool.

Typical application



SER7300 Series ordering matrix

SER73 A 45

Humidity sensor and control:
 -0 = No humidity sensor
 -5 = Internal humidity sensor

PIR options:
 -50 = PIR ready, but PIR cover not included
 -55 = Factory assembled with PIR cover

Communication options:
 -B = BACnet MS/TP
 -W = ZigBee wireless
 - = Network ready

Example:
SER7305A5545B

- Line-voltage fan coil controller
- No humidity sensor
- Hotel/lodging application, °C/°F
- Factory assembled with PIR cover
- BACnet MS/TP communication

Control key function:
 -0 = Override, for commercial applications
 -5 = °C/°F, for hotels/lodging applications

* Some part number configurations may not be available. Please refer to the tables for available versions.

Please refer to the SE7000 Series - Product Comparison Guide for all available part numbers. The latest SE7000 Series - Product Comparison Guide is available as a pdf document on the web at: <http://schneider-electric.com/buildings>.