

Compatible with
SmartStruxure™ solution
SmartStruxure Lite solution

Room Controller

SE7600F Rooftop Unit with Modulating Heat Controller

The SE7600F Rooftop terminal equipment room 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 SE7600F 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.



SE7600F RTU with Modulating Heat Features



The SE7600F is easy to install and includes modulating heat functionality, which allows for the addition of an extra supply air temperature control loop to better control and condition the supply air levels, providing a more comfortable occupant environment.

Introduction

Maintaining fresh air requirements for buildings located in colder climates has always been a challenge. In low outdoor air temperature conditions, supply air is often too cold to be used directly without conditioning when no heating demand is present. This creates an uncomfortable environment for occupants that is difficult to control.

RTU terminal equipment controllers for modulating heat

The SE7600F roof top terminal equipment room controller with modulating heat makes your building more comfortable while still meeting ventilation codes for minimum building fresh air requirements.



AT A GLANCE

Custom design

- Function with any open protocols
- Network ready units can be retrofit in the field with optional communication modules
- One simple wall-mounted device to install, wire, and commission
- Application-specific controllers
- No special software required
- Fully embedded local configuration utility

Options and accessories

- PIR occupancy sensor
- Advanced occupancy and monitoring functions
- 7-day scheduling

The SE7600F is easy to install and includes modulating heat functionality. This allows for the addition of an extra supply air temperature control loop to better control and condition the supply air levels, providing a more comfortable occupant environment.

This easy-to-install wall-mounted SE7600F room controller features an easy-to-read digital display and built-in commissioning and configuration utility, temperature sensor, optional humidity sensor, and optional Passive Infrared (PIR) occupancy sensor cover.

Open protocol design provides compatibility to BACnet® MS/TP and wireless ZigBee® Pro network systems. Our network ready “stand-alone” versions can be field retrofit with optional communication modules that enable the SE7600F to be integrated into virtually any building automation system as building requirements change.

No previous building automation training is required for the easy installation and commissioning process. Installation can be completed in fifteen minutes.

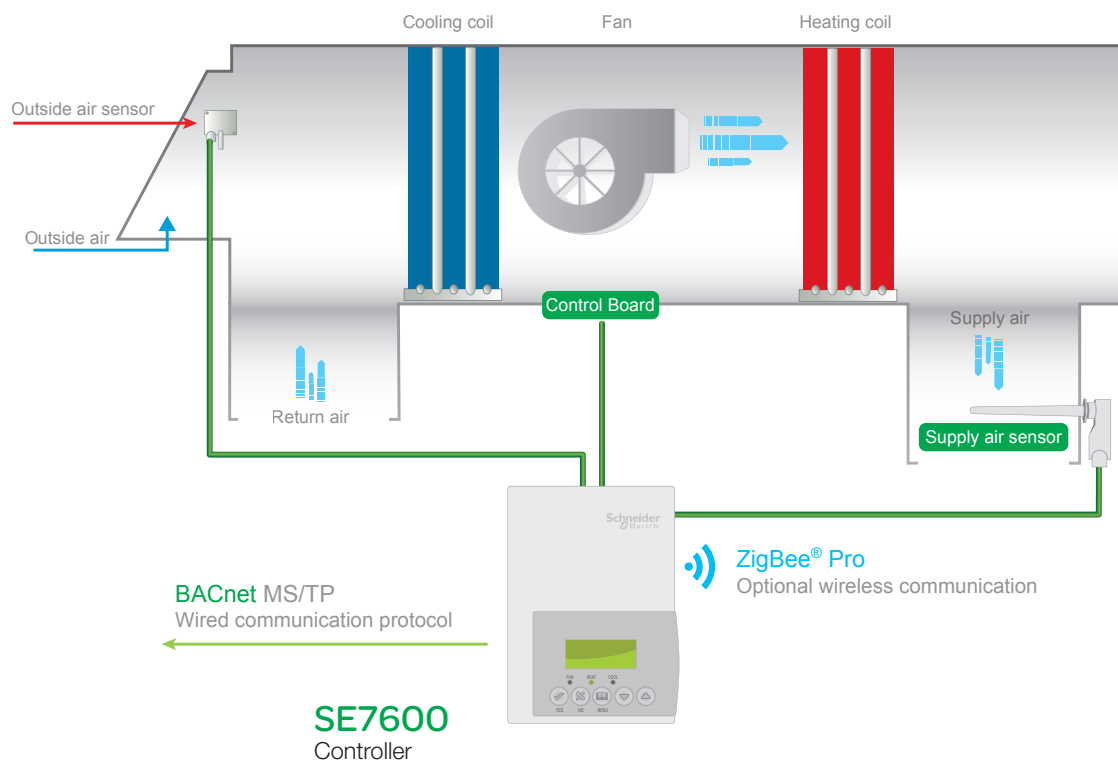
SE7600F RTU with Modulating Heat Applications

Simplified HMI



Unique 5 button menu driven user interface simplifies programming and commissioning time during typical installation of unit.

TYPICAL APPLICATION



SE7600F RTU with Modulating Heat Specifications

Specifications

Dimensions

12.5cm/4.9in (H) x 8.6cm/3.38in (W) x 2.9cm/1in (D)

Power Requirements

19-30Vac, 50/60 Hz; 2 VA (RC & C) Class 2
RC to RH jumper 2.0 Amps 48 VA maximum

Operating Conditions

0 °C - 50 °C (32 °F - 122 °F)
0% - 95% R.H. non-condensing

Storage Conditions

-30 °C - 50 °C (-22 °F - 122 °F)
0% - 95% R.H. non-condensing

Temperature Sensor

Local 10 K NTC thermistor

Temperature Sensor Resolution

± 0.1 °C (± 0.2 °F)

Temperature Control Accuracy

±0.5 °C (± 0.9 °F) @ 21 °C (70 °F) typical
calibrated

Occ and Unocc Cooling Setpoint Range

12.0 - 37.5 °C (54 - 100 °F)

Occ and Unocc Heating Setpoint Range

4.5 °C - 32 °C (40 °F - 90 °F)

Room and Outdoor Air Temperature

Display Range

-40 °C - 50 °C (-40 °F - 122 °F)

Proportional Band for Room Temperature control

Factory set, heating and cooling at: 1.1°C (2.0°F)

Digital Inputs

Relay dry contact only across C terminal to DI1 or DI2

Contact Output Rating

Each relay output: (Y1, Y2, G, W1, W2 & AU)
30 Vac, 1 Amp. maximum
30 Vac, 3 Amp. in-rush

Modulating Heat, Analog Output Rating

0 to 10 Vdc into 2KΩ resistance min.

Wire Gauge

18 gauge maximum, 22 gauge recommended

Approximate Shipping Weight

0.75 lb (0.34 kg)

Agency Approvals All Models

UL: UL 873 (US) and CSA C22.2 No. 24 (Canada),
File E27734 with CCN XAPX (US) and XAPX7 (Canada)

Industry Canada: ICES-003 (Canada)

FCC: Compliant to CFR 47, Part 15, Subpart B,
Class A (US)

CE: EMC Directive 89/336/EEC (Europe Union)

C-Tick: AS/NZS CISPR 22 Compliant (Australia /
New Zealand) Supplier Code Number N10696

Agency Approvals Wireless Models

FCC: Compliant to: Part 15, Subpart C

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.



Check with your local government for instruction on disposal of these products.



Ordering information

SE76 F 45

Programmability:

-00 = No local scheduling / Non programmable
-52 = Local scheduling / programmable

PIR options:

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

* Some part number configurations may not be available.

Communication options:

-B = BACnet® MS/TP
-P = ZigBee Pro wireless
-W = ZigBee® wireless
- = Network ready