

Series 2000 Room Temperature Sensors with Fan-Speed Control



Description

The Series 2000 Room Temperature Sensors provide an interactive digital link to Terminal Equipment Controllers (TECs) that allows viewing and adjusting controller points directly from the sensor's liquid crystal display and keypad. These sensors incorporate a precision thermistor to accurately and reliably measure room temperature. They also provide fan speed control using a momentary contact switch that is wired to a DI on the TEC.

Features

Programmable Liquid Crystal Display (LCD): A two-line alphanumeric LCD allows simultaneous display of room temperature, a user-selected critical point, and day/night operation status. Users may configure the screen to:

- show English or metric unit
- turn the room temperature display on or off
- select a critical point for display or turn off the critical point display

- **Digital setpoint adjustment:** The sensor's keypad allows error-free digital setpoint adjustments in one-degree increments. Setpoint values momentarily display as changes are made.
- **Display of operating mode:** Graphic symbols are displayed to indicate the controller's operating mode. A sun indicates occupied mode operation and a moon indicates night mode operation.
- **Override button:** A flush-mounted override button allows user to change to an occupied control schedule during the unoccupied cycle for a period of time determined by the system operator.
- **Passkey security:** A special hardware passkey plugs into the sensor's MMI port to allow access to the display configuration menu and the controller's point database.
- **Backward compatibility:** These sensors are backward compatible with all TECs, including PTECs. The sensors are wired with six-conductor phone cables and standard RJ-11 connectors. The fan speed TEC control switch is separately wired to a DI on the TEC.
- **Maintenance free:** These sensors draw a small amount of power directly from the controller and do not use batteries. This eliminates the cost of battery replacement and disposal.

Fan Speed Feature

The Series 2000 Room Temperature Sensors with Fan-Speed Control offers the additional functionality of providing a push-button to allow fan speed to be adjusted. The push-button is a momentary contact switch that sends a digital signal to the Terminal Equipment Controller (TEC) to step a fan through its various speeds.

Specifications

Effective Sensing and Setpoint Range:	
(TEC)	55°F to 95°F (13°C to 35°C)
Output Signals	Changing resistance
Room temperature	Changing resistance
Setpoint	Digital
Thermistor Calibration Point (TEC)	77°F (25°C)
Element Type	10K ohm Thermistor
Accuracy	
55 - 80.6°F (13 - 27°C)	±0.5°F (±0.3°C)
80.6 - 95°F (27 - 35°C)	±1.0°F (±0.55°C)
Calibration	None required
Installation:	
TEC	100 ft. maximum cable length 6C No. 24 AWG, NEC Class 2
Installation Adjustments	None required
Cover	
Dimensions	3-11/32" H x 2-1/2" W x 1-1/2" D (85 mm x 63 mm x 38 mm)
Color	Desert beige or white
Fan digital input	Dry contact, normally open, momentary contact closure
Fan switch contact ratings	30 Vdc max 100 mA
Fan speed lead wire length	12"
Fan speed lead wire gauge	22 AWG

Ordering Information – TEC – Series 2000

Description	Part Number
Series 2000 Interactive TEC room sensor with fan speed switch (Beige)	540-652A
Series 2000 Interactive TEC room sensor with fan speed switch (White)	540-652B

Ordering Information – Accessories

Description	Product Number
Occupancy Override Button, 25-pack (Beige)	544-480A
Occupancy Override Button, 25-pack (White)	544-480B
Setpoint Door, 25-pack (Beige)	544-481A
Setpoint Door, 25-pack (White)	544-481B
Passkey	544-643A
Single Adapter Base Kit (Beige)	544-782A
Double Adapter Base Kit (Beige)	544-783A
Double Adapter Base Kit (White)	544-783B
Non-conduit Rough-in Kit	544-784
Extender Ring Kit (Beige)	544-785A
Extender Ring Kit (White)	544-785B
RJ-11 Cable, 6-Wire, Plenum-Rated, 25 feet	588-100A
RJ-11 Cable, 6-Wire, Plenum-Rated, 50 feet	588-100B
RJ-11 Cable, 6-Wire, Plenum-Rated, 100 feet	588-100C

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