Room Temperature Sensors

– For Siemens APOGEE® Field Panels and Controllers



Series 1000 Room Temperature Sensor with all Available Options.

Description

The Series 1000 Room Temperature Sensors offer a wide range of features and functionality that deliver exceptional occupant comfort in even the most demanding application environments. The product family range includes plain sensing only variants, as well as types with temperature setpoint LCD display and night set back. All sensors incorporate precision temperature sensing elements to accurately and reliably measure room temperature. Their compact design results in an attractive, inconspicuous installation. A styled ventilation ring optimizes airflow through the cover for fast measurement response and superior control.

Features

- Platinum RTD or thermistor element
- Variety of connections
- Unpluggable termination block simplifies installation and service
- Plug in terminal for troubleshooting
- Maintenance free

Optional

- LCD temperature display
- Setpoint adjustment
- Occupancy override button

Applications

These sensors may be installed in all kinds of environments including schools, hospitals, universities, strip malls and commercial office buildings.

Series 1000 Room Temperature Specifications

Temperature Range
- Setpoint ..... 55 to 95°F (13 to 35°C)
- Operating..... 55 to 95°F (13 to 35°C)

Output Signals ..... Changing Resistance

Accuracy
- 10K Ohm Thermistor
  - 55 to 80.6°F (13 to 27°C) ..... ±0.5°F (±0.3°C)
  - 80.6 to 95°F (27 to 35°C) ..... ±1.0°F (±0.5°C)
- 1,000 Ohm RTD Mid-Range
  - 75°F (24°C) ..... ±0.75°F (± 0.4°C)

Calibration Adjustments ..... None Required

Installation

TEC .....100 ft. Maximum Cable Length
6C # 24 AWG, Belden 1228A or Equal, NEC Class 2

APOGEE Field Panels .....300 to 750 ft.
Max. Cable Length 18 to 22 AWG
Twisted Pair, 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)

Cover Color ..... Desert Beige or White

Series 1000 Room Temperature Ordering

Description	Part No.
10K NTC	
Sensing Only	**540-660**[1]
Sensing with Override, Setpoint	**540-670**[1]
Sensing with Override, Setpoint, Temperature and Display	**540-680**[2]
1K Platinum RTD Type (375 ALPHA)	
Sensing Only	**544-760**[1]
Sensing with Override, Setpoint	**544-770**[1]
Sensing with Override, Setpoint, Temperature Display	**544-780**[2]

Ordering Notes:

[1]Add letter suffix to indicate desired color: **A** for Desert Beige, **B** for White (Example: 540-660A).

[2]Add letter suffix to indicate temperature display units and color:
F for °F, **C** for °C, **A** for Desert Beige, **B** for White (Example: 540-680FA).