

## LTEC Room Temperature Sensors



### Description

The LTEC Room Temperature Sensors from Siemens Industry, Inc. offer a wide range of features and functionality that work in concert with the APOGEE Automation System to deliver exceptional occupant comfort in even the most demanding application environments. The product family range includes plain sensing only as well as full-feature versions and everything in between.

All sensors incorporate precision temperature sensing elements to accurately and reliably measure room temperature. Their compact, low profile design results in an attractive, inconspicuous installation. A styled ventilation ring optimizes airflow through the cover for fast measurement response and superior control. The LTEC Room Temperature Sensors provide accurate, reliable sensing of room temperature.

### LTEC Applications

Room temperature sensors for LTEC applications incorporate a thermistor element and plug-in Portable Operator's Terminal port located on the bottom of the cover. The plug-in Portable Operator's Terminal port provides a convenient means of communicating with the LonWorks network to command or troubleshoot the system.

These sensors connect to LTECs using a six-wire cable terminated with a plug-in RJ-11 connector. The

cable transmits the temperature, communication with the Portable Operator's Terminal, and the optional setpoint and override signals.

### Optional Features

- **Digital temperature display:** The digital temperature display provides an easy-to-read room temperature value in degrees Fahrenheit or Celsius.
- **Setpoint adjustment:** The high accuracy setpoint adjustment incorporates dual temperature scale indication and an access door that covers the setpoint adjustment switch.
- **Override button:** The flush mounted override button allows an occupant to change to an occupied control schedule during the unoccupied cycle for a predetermined time period.

### Specifications

Temperature Range	
Setpoint	55°F to 95°F (13°C to 35°C)
Operating	55°F to 95°F (13°C to 35°C)
Output Signals	Changing resistance
Accuracy	
10K ohm Type II Thermistor	
55 - 80.6°F (13 - 27°C)	±0.5°F (±0.3°C)
80.6 - 95°F (27 - 35°C)	±1.0°F (±0.5°C)
Calibration Adjustments	None required
Installation	100 ft maximum cable length. 6C #24 AWG, Belden 1228A or equal, 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

## Product Ordering Information

LTEC Description	Product Part Number	No Logo Version
Sensing with override, setpoint, white	550-184B	587-554B
Sensing with override, setpoint, temperature and critical point display	550-187 <sup>2</sup>	—

<sup>1</sup> Add letter suffix to indicate desired color: A=Desert Beige, B=White (e.g., 550-180A).

<sup>2</sup> Add an additional letter suffix to indicate temperature display units. If no display suffix is requested, °F display is the default configuration.

F=°F, C=°C, (for example, 550-187AF).

## Accessories Ordering Information

Description	Part 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
Blank Bezel, 25-pack (Beige)	544-482A
Blank Bezel, 25-pack (White)	544-482B
Room Temperature Sensor Repair Kit, Single-pack (Beige)	544-483A
Room Temperature Sensor Repair Kit, Single-pack (White)	544-483B
Blanking Override Button, 25-pack (Beige)	544-484A
Blanking Override Button, 25-pack (White)	544-484B
Single Adapter Base Kit (Beige)	544-782A
Single Adapter Base Kit (White)	544-782B
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
LTEC room sensor cables (6 conductor w/RJ-11 connectors on each end):	
25-foot	588-100A
50-foot	588-100B
100-foot	588-100C

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