Carrier COMFORT NETWORK

PRODUCT DATA

T-56 SPACE TEMPERATURE SENSOR WITH OVERRIDE AND SETPOINT ADJUSTMENT



The T-56 Space Temperature Sensor with Override and Setpoint Adjustment is designed to complement any interior decor. The sensor has the following advantages over conventional thermostats:

- Elimination of drift and calibration
- Reduced maintenance cost
- Accurate temperature sensing

The T-56 Space Temperature Sensor package consists of:

- (1) Space Temperature Sensor
- (2) 6-32" x 1" round head machine screws
- (1) Installation Instructions

The sensor's override button and temperature offset slide are provided for the control of features in the device to which the sensor is connected. The corresponding features must be present and enabled in the device to which the sensor is connected in order for the button and/or slide to have any effect.

The sensor's integral override button allows a tenant to signal a request for an override of the occupancy schedule currently controlling the HVAC equipment in that zone.

The sensor's integral temperature slide switch allows an occupant to adjust (bias) the heating and cooling setpoints upward and downward by a configured amount.

To support its temperature sensing, override, and setpoint adjustment functions, the sensor must be connected by a twisted, three-conductor, shielded cable to the CCN controller that it serves.

The sensor also includes a communication port for connection of a CCN Network Service Tool. A Network Service Tool connected to that port can communicate with all system elements on the CCN Communication Bus. Use of the communication port for the Network Service Tool requires an additional three-conductor shielded cable.

SENSOR APPLICATIONS

The wall sensor is used typically with the CCN Comfort Controller or ComfortID Zone Controller for temperature sensing, remote timed override and setpoint bias. Base setpoints for cooling and heating are set by the CCN ComfortVIEW or ComfortWORKS operator.

When used with CCN controllers that support timed override, the T-56 Space Temperature Sensor provides the following:

- Electronic measurement of space temperature
- Occupancy override by pushing the override button

The Tenant Billing Option can be used in conjunction with the CCN controllers to keep track of timed overrides initiated with the T-56 Space Temperature Sensor. Tenant Billing tracks a tenant's after-hours usage of a CCN system.

Specifications subject to change without notice

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SPECIFICATIONS

Connections ..... labeled screw terminals
Operating Temperature .....32°F to 120°F
(0°C to 49°C)
Storage Temperature ..... -40°F to 160°F
(-40°C to 70°C)
Humidity ..... 0% to 95%, non-condensing
Dimensions ..... 4.51 in H X 2.75 in W X 1.15 in D
(11.46 cm X 6.98 cm X 2.92 cm)
Color ..... beige

THERMISTOR SPECIFICATIONS

Zero Power Resistance ..... 10K Ohms @ 25°C
Tolerance ..... +/- 0.2°C from 0 to 70°C
Dissipation constant ..... 3 mWatt/°C
Thermal time constant ..... 10 seconds
(for 63.2 % step change)

SETPOINT ADJUSTMENT SPECIFICATIONS

Cool .....0 Ohms (nominal)
Center ..... 50K Ohms (nominal)
Heat ..... 100K Ohms (nominal)

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