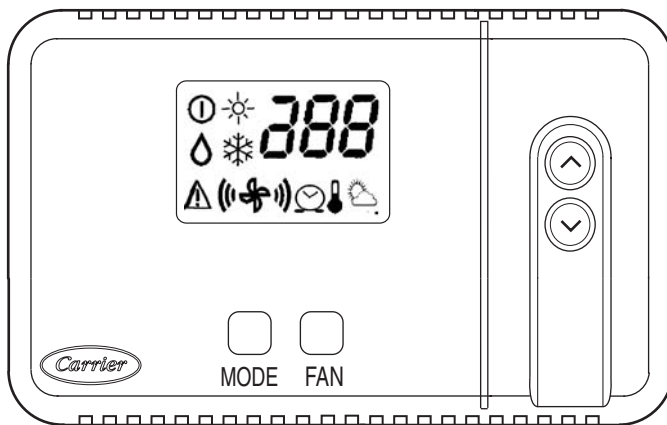




Product Specification

T58 Communicating Room Sensor

Part No. 33ZCT58SPT



FRONT VIEW



LEFT SIDE VIEW WITH RJ14 CCM COM

Carrier's T58, communicating room sensors are wall-mounted, low-voltage sensors which communicate room temperature set point changes and time schedule overrides to the controller that operates the HVAC (heating, cooling and ventilation) equipment.

The T58 sensor provides a custom Liquid Crystal Display (LCD) with universally recognized icons and 4 push-buttons allowing user interface and feedback capabilities. During power interruption, the T58 sensor stores configuration parameters in non-volatile memory, allowing coordinated control to resume after power is restored.

Features/Benefits

The T58 Communicating room sensor provides the following features and benefits:

- Single unit user interface operation
- Space temperature display from on-board thermistor
- Set point adjustment using data from attached device
- Occupancy mode override of attached device
- Outside air temperature display
- Non-volatile memory allowing retention of user settings/configurations during power outages
- Configurable display
- User-friendly operations
- Universal LCD icons
- CCM Communications
- Fahrenheit or Centigrade
- Display of attached device type
- Display/change fan speed
- Display attached devices mode

Specifications



- Compatible with ComfortID™ air terminals, fan coil controller and retrofit rooftop controller
- User control mode disable feature with up to 4 hours of occupancy override configured in attached device.
- Heating and cooling set points adjustment
- Display features mode, status, and occupancy override status

The T58 sensor has four raised buttons – two below the LCD display window labeled MODE and FAN respectively, and two unlabeled buttons to the right of the LCD display, which are used to invoke the increment and decrement functions. Following are the functions of T58 sensor:

- Select/change installer options
- Read/change current fan speed
- Read current controller operating mode
- Read/change heating or cooling set point value
- Initiate time schedule override
- Display network outside air temperature

The following list identifies the data values and graphics that are shown in the T58 LCD display window depending on which function is requested of the sensor:

- Space temperature value (default display)
- Heating or cooling set point value (attached device)
- Current operating mode (attached device)
- Current fan speed (attached device)
- Network outside air temperature
- Time schedule override in effect
- Error indications

The T58 sensor complies with FCC Part 15, Subpart J.

Physical characteristics

Dimensions (L x W x D): 4.3" x 2.7" x 0.875"

Appearance: Plastic Material; White Color; Textured Cover

Weight: 0.15 lb maximum

Power requirements

Carrier recommends the use of a separate, dedicated 24 vac power supply, although power can be shared with another controller that requires a 24 vac power supply. This device can be supplied by a separate, dedicated transformer (recommended) or power can be shared with another 24 vac device on the system. The location of the T58 sensor relative to its target element will normally dictate the most effective source of power. Power supply polarity must be maintained if power is shared between the T58 sensor and another communicating device. Failure to maintain polarity when sharing power can result in serious damage to the T58 sensor or the other device. Carrier recommends separate, isolated 24 vac power sources for each T58 sensor installed.

24 va RMS nominal (18 min. to 30 max. vac)

Power consumption is less than 100 ma @ 24 vac RMS

RS-485 system connection

Environmental requirements

Temperature:

Operating: 32 F to 104 F (0° C to 40 C)

Non-Operating: -40 F to 136 F (-40 C to 57 C)

Humidity: 10 to 95% RH, Non-Condensing

Safety requirements

EN 60335-1 Generic Appliance Safety Standard

EN 60335-2-40 HP/AC Safety Standard

Electrical characteristics

Inputs: 24 VAC supply voltage drawing .1 amp maximum and .05 amps minimum

Temperature control

Determined by attached controller

