

FEATURES

- ❖ Temperature Sensor
- ❖ 3 digit LCD display
- ❖ Display Calibration Pot
- ❖ Sensor Calibration Pot
- ❖ Service Tool Jack
- ❖ Set point Switch (optional)
- ❖ Override Switch (optional)
- ❖ °F & °C Selection Switch
- ❖ Universal Mount
- ❖ Neutral Styling
- ❖ Custom face plates available upon request
- ❖ Mounting Ring Optional (from Staefa)

APPLICATIONS

- ❖ Smart II room sensor w/ temperature display
- ❖ RS room sensor w/ temperature display

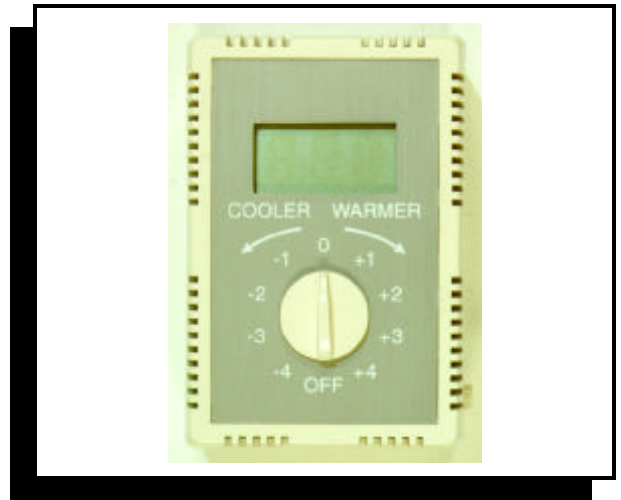
DESCRIPTION

The RS-LCD (Room Sensor with LCD Digital Display) is used with the SMART II Controllers in zone temperature control applications. In addition to temperature sensing, the sensor is available with optional Set point and temporary occupancy switches. The SM2 room sensors are provided with a connection for the Staefa's service tool allowing ceiling mounted controllers to be adjusted without ceiling entry.

The room sensor is designed to provide fast response to changes in thermal comfort conditions both visually and electrically. The digital display updates 2½ times a second and a high output precision thermistor is thermally connected to a metallic faceplate which provides the sensitivity and response required for optimal DDC control.

The Set point adjust option incorporates a 10 position rotary switch, which provides a $\pm 4^{\circ}\text{F}$ Set point offset adjustment.

Room sensor is 2" x 3" in size which allows for versatility in mounting locations. Where wiring boxes are required, a trim plate is available from Staefa.

**SPECIFICATIONS**

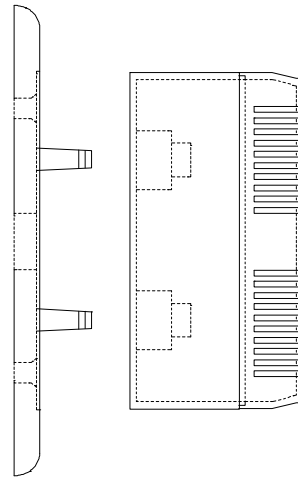
SIZE:	3" L x 2" W x 1.4" H
SM2 SENSOR:	T-30 NTC Thermistor
Range:	39 -101°F
Accuracy:	$\pm 1^{\circ}\text{F}$ @ 70°F
DISPLAY:	
Sample Rate:	2.5 per second
Power Req:	SM2 T-30 version +5V DC
Size:	3 digit, 1 decimal point .35" character height
COMMUNICATION:	
Connection:	SM2 6 pos modular
Interface:	SM2 5V baseband
SET POINT ADJUST:	
Range:	$\pm 4^{\circ}\text{F}$
Type:	10-position rotary switch
ENVIRONMENTAL OPERATING CONDITIONS:	
Temperature:	0...120°F
Humidity:	10...90% RH (non-condensing)
HOUSING:	
Material:	Plastic
Faceplate:	Aluminum
Color:	Spectrum A2500 fog (off-white)

ORDERING INFORMATION

- SM2-RS1000D T-30 room sensor, no legend
- SM2-RS1010D T-30 room sensor with override Switch
- SM2-RS1101D T-30 room sensor with Set point, vertical legend
- SM2-RS-1111D T-30 room sensor with Set point, override switch, vertical legend

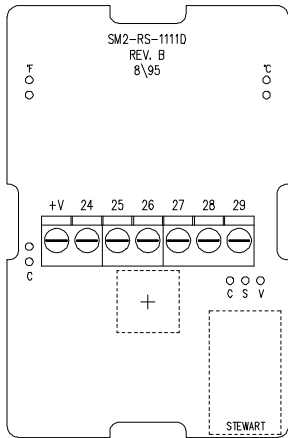
- SM2-TRIM RING Part # 594-61010-01. Available from a STAEFA Distributer.

MOUNTING OPTIONS



The sensor must be mounted vertically. A base plate allows mounting on a standard electrical 2" x 4" handy box. With the base plate removed the sensor can be attached to the wall or a switch ring. In some applications double sided tape may be used.

WIRING CONFIGURATION

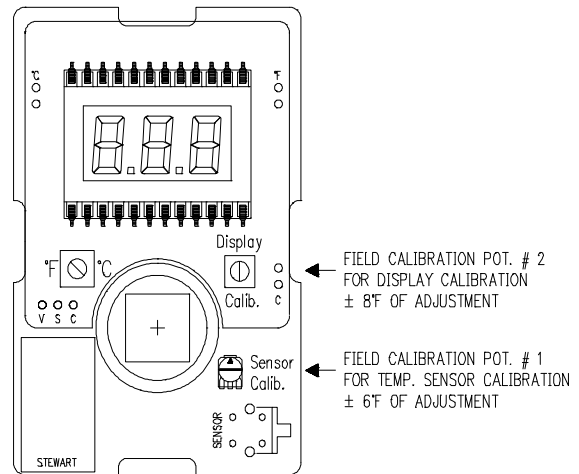


WIRING CONFIGURATION

RS-1111D SM2-DDC

+V	+5VDC	35
24	RSRX	24
25	RSTX	25
26	RSMS	26
27	SETPOINT	27
28	COMMON	28
29	SENSOR	29

FIELD CALIBRATIONS



A seven conductor cable connects the SM2-RS with the Smart II controller, as shown in the diagram. Wire size shall be 22 AWG minimum with a maximum length of 75'. Longer distances required 18 AWG with a maximum length of 175'.

The RS-LCD is set-up to STAEFA's published thermistor resistance table for the T-30 sensor.

Field calibrations as follows:

- 1st. Connect RS-sensor to controller.
- 2nd. Connect service tool and read room temperature.
- 3rd. Take temp reading and adjust sensor calibration pot (located on base board) so service tool reads the same.
- 4th. If display does not agree with service tool then and only then adjust display calibration pot located on upper board.