

# Robertshaw®

## 9020i

### REMOTE INDOOR SENSOR

#### Introduction

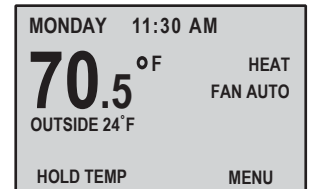
The indoor sensor is designed to sense the air temperature at a remote location and send this information to the thermostat. Once connected, the thermostat responds only to the temperature sensed by the indoor sensor(s) or by averaging the reading between the thermostat and the remote sensor.

#### Installation of Indoor Sensor

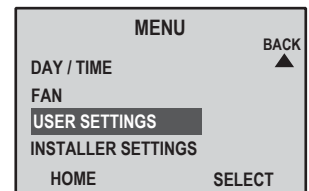
1. Install the thermostat according to the instruction manual supplied with it. Check that the thermostat is operating. (Display shows the correct temperature.) **CAUTION: Remove the thermostat from the subbase while wiring the sensor to avoid damage from live wires. This is important.**
2. Install shielded or nonshielded two wire twisted cable from the thermostat to the remote sensor location. Maximum distance is 330 ft. (100m).
3. Open the sensor case by grasping the side and pulling the two halves apart.
4. Use the subbase as a template to mark the mounting hole locations on the wall. Drill size for the wall anchors is 1/4 inch. Mount the subbase over the wires coming out of the wall using the two screws and anchors provided. Do not use hex head screws.
5. Strip 1/4 inch of insulation from the two wires at the remote sensor. Install the wires in the terminals. **The wires can be connected with either polarity.** Seal the hole in the wall around the cable to eliminate any draft that might affect the sensor.
6. Connect the wires on the thermostat subbase to the sensor terminals. **Again, the wires can be connected with either polarity.** Connect the wires to the terminal labeled "Indoor Sensor".
7. Mount the thermostat on the subbase and check to be sure that it is showing the temperature.

#### Temperature Averaging

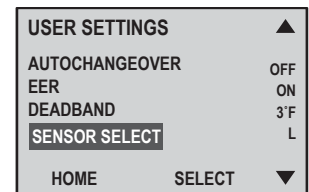
When a remote indoor sensor is connected to the thermostat, the thermostat will recognize the sensor. To activate the sensor, press MENU.



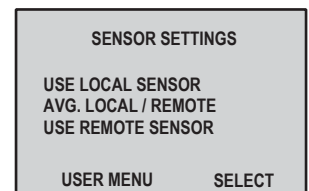
Press the DOWN key to highlight USER SETTINGS. Press SELECT.



Press the DOWN key to highlight SENSOR SELECT. Press SELECT.



Using the UP and DOWN keys, select USE LOCAL SENSOR, AVERAGE LOCAL/REMOTE, or USE REMOTE SENSOR.



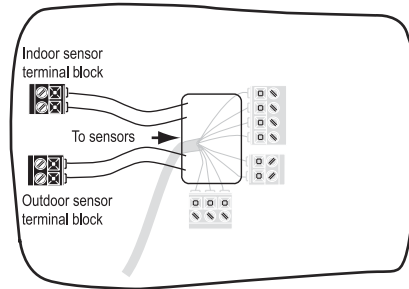
If USE LOCAL SENSOR is chosen, the thermostat will control the temperature sensed by the sensor built into the thermostat.

If AVERAGE LOCAL/REMOTE is chosen, the thermostat will control the temperature based on the average of the local sensor and the remote sensor.

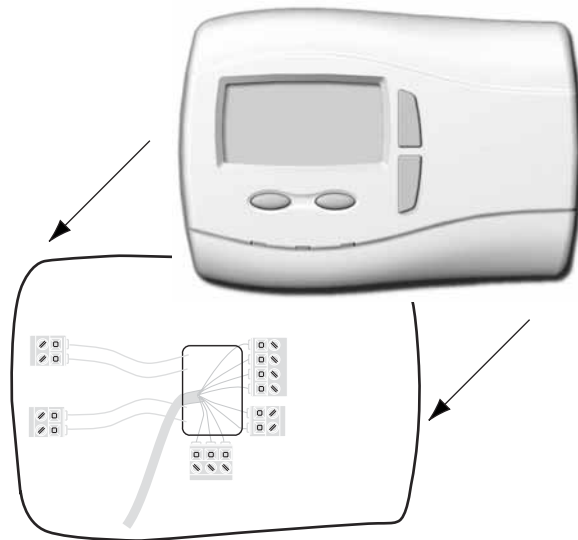
If USE REMOTE SENSOR is chosen, the thermostat will control the temperature sensed by the remote sensor.

# 9020i Remote Indoor Sensor Installation Instructions

- 1 Connect wiring between the thermostat and the indoor sensor (9020i). Use twisted pair wiring (22AWG minimum) with a maximum length of 330 feet (or 100m).



- 2 Replace cover on thermostat. Turn on power to unit and proceed with programming per instructions on the display or in the user's manual.



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