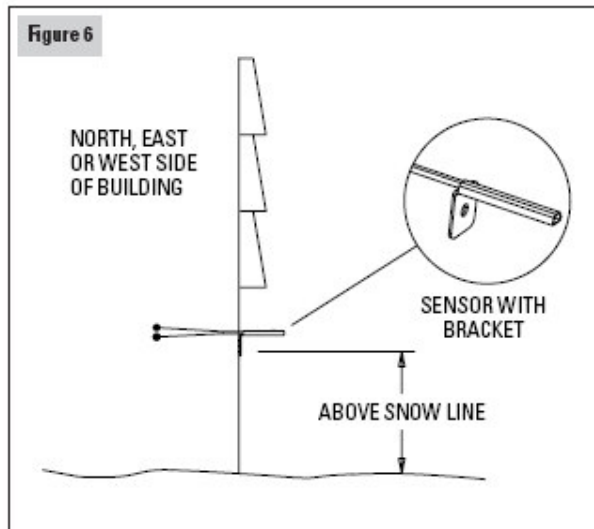


(6) OPTIONAL – INSTALL AN APRILAIRE MODEL 8052 OUTDOOR TEMPERATURE SENSOR

Note: If an AHC is to be installed, do not wire an outdoor temperature sensor— see Step 7. The AHC uses its own outdoor temperature sensor, which can be read by the thermostat.

1. Mount the outdoor temperature sensor (see **Figure 6**).
 - Locate on the North side of the building if possible. East and West are acceptable locations as long as the sensor will not be exposed to direct sunlight.
 - Mount above anticipated snow line.
 - Mount at least 3 feet away from exhaust vents and condensing units.
 - Maximum wire length from sensor to thermostat is 300 feet.
 - Under a soffit or under a wall overhang are recommended areas for mounting the sensor.
 - Follow any additional location requirements found on sensor installation instructions.



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2. Run a 2-wire cable from the sensor to the thermostat.

CAUTION

Do not run the wire along side line voltage (120 VAC) or higher lines as this can cause erratic readings.

3. Take a resistance measurement before connecting to the ODT and CIR GND terminals to verify the sensor is properly installed. Measure the wires at the thermostat to account for wire splices.
 - Use an ohmmeter to measure the resistance (k Ω) of the sensor. The resistance reading will depend on the outdoor temperature (see table).
4. Wire the sensor to the thermostat (see **Figure 7**).
 - Strip 1/4" of insulation from the two sensor wires.
 - Connect the sensor wires to the ODT and CIR GND terminals of the thermostat. The wiring is not polarity sensitive, so either wire can be connected to either thermostat terminal.

OUTDOOR TEMPERATURE (°F)	RESISTANCE (k Ω)
-30	230.6
-20	163.8
-10	117.6
0	85.4
10	62.6
20	46.3
30	34.6
40	26.1
50	19.9
60	15.3
70	11.9
80	9.4
90	7.4
100	5.9

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Figure 7

