

# AprilAire<sup>®</sup>

## Sensors

### SPECIFICATION

## Models 8051, 8052 and 8053

All-in-One Installation Bundle

### FEATURES

AprilAire sensors offer the ultimate flexibility in remote sensing of thermostats. The temperature reading from these sensors may be used to monitor a remote temperature or to override the temperature taken at the thermostat.

### COMPATIBLE WITH:

- 8620
- 8620W
- 8910
- S86WMUPR
- S84NSU
- 8910W
- 8920W
- 8800
- S86NMUPR
- 8820
- 8830
- 8840
- S86NMU

SPECIFICATIONS	
Voltage	24 VAC ±10%
Resistance	10 kΩ
Tolerance	±3%
Maximum Wire Length	300 ft
Wire Type	-18-24 gauge 2 conductor wire (or more conductors)

- Avoid installing wire along High Voltage (120 VAC).

TEMP (°F)	RESISTANCE (kΩ)
30	34.6
40	26.1
50	19.9
60	15.3
70	11.9
80	9.4
90	7.4
100	5.9



### 8051 FLUSH MOUNT SENSOR

- Provides a virtually invisible appearance on wall.
- May be painted or wallpapered to match wall.
- Ideal for residential or light commercial applications where customer requires nothing to be seen on the wall.
- 1/2" diameter disk. Friction fit in a 1" opening. Air gap of 1/64" required.



### 8052 OUTDOOR/DUCT SENSOR

- Designed for outdoor or duct installation.
- Bracket can be removed to allow probe to be installed in radiant flow applications.
- Compatible with both residential or light commercial applications.
- Probe measures 1/4" Dia. x 1 1/4" L. Bracket measures 3/4" x 3/4".



### 8053 SURFACE MOUNT SENSOR

- Designed for indoor installation.
- Perfect for light commercial applications to prevent tampering.
- 2 1/2" H x 3 1/2" W x 7/8" D.

# Model 8083

Automation Module

### FEATURES

Reading temperature at the thermostat location is not always the best way to manage HVAC system settings. Automation modules provide the ability to gather and average temperature and humidity data from multiple locations. The AprilAire Model 8083 Flush Mount Module can be installed entirely out of view in the wall and painted.



SPECIFICATIONS	
Dimensions	Front disk 1½" Cylinder hole 1" off wall ¼" air gap
Type of Wire	Cat 6 or greater
Maximum support	4 modules per thermostat
Compatible Models	8800, 8820, 8830, 8840
Temperature	-40-130°F (-40-55°C)
Temperature Accuracy	±1°F 60-80°F (comfort range) ±2°F 40-100°F (control range)
Humidity	0%-99% R.H. (non-condensing)
Humidity Accuracy	±5% R.H. 20%-80% R.H.
Electrical	Operating Voltage 24 VAC (18-30 VAC)

### MODULE 8083

- Flush temperature and RH module
- Averages four temperature and four RH values
- Max of four modules per thermostat