

The Temperature/Humidity Sensors includes temperature and humidity sensors and a passive solar radiation shield (product number 6830), or a 24-Hour Fan-Aspirated Radiation Shield (product number 6832). The Temperature/Humidity Sensor measures relative humidity and air temperature. The passive solar radiation shield is made of a proprietary plastic designed for high thermal reflectance and low thermal conductivity. The 24-Hour Radiation Shield includes a solar- and battery-powered fan that pulls air up through the shield and over the sensors for highest temperature accuracy.

General

Operating Temperature	-40° to +150° F (-40° to +65° C)
Storage Temperature	-40° to +158° F (-40° to +70° C)
Sensor Type:	
Temperature	PN junction silicone diode
Relative Humidity	Film capacitor element
Cable Length	15 feet (4.6 meters)
Dimensions	
6380	.1" high x 9.5" wide x 7.8" deep (206 mm x 241 mm x 198 mm)
6382	8.1" high x 9.5" wide x 7.8" deep (206 mm x 241 mm x 198 mm)
Weight	
6380	3.5 lbs. (1.6 kg)
6382	6.6 lbs. (3.0 kg)

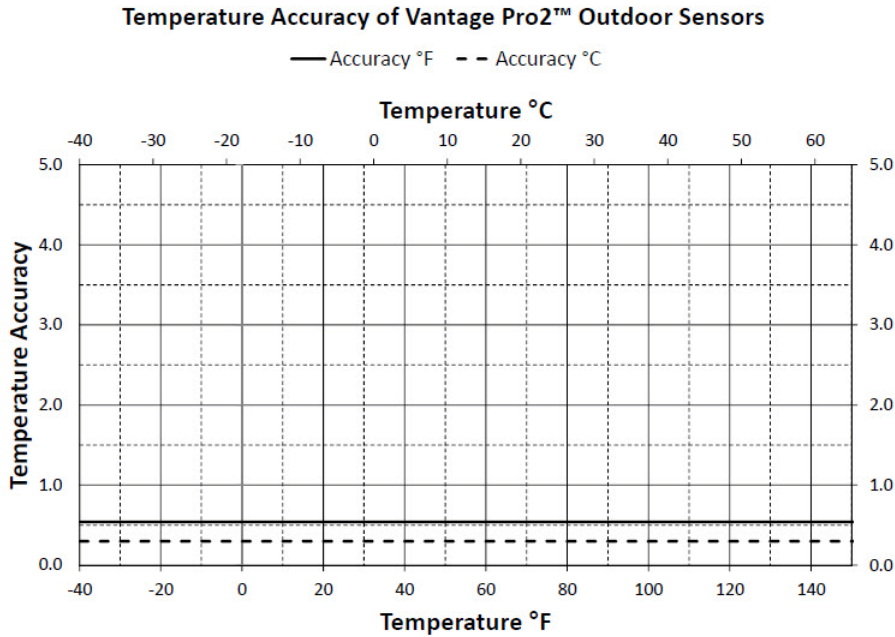
Sensor Output

Relative Humidity

Resolution and Units	1%
Range	1 to 100% RH
Accuracy	±2%
Drift	up to ±2% per year
Update Interval	10 seconds
Alarms	High and Low Threshold from Current Reading

Temperature (Air)

Resolution and Units 1°F or 1°C. (Celsius is converted from Fahrenheit and rounded to the nearest 1°C)
 Range -40° to +150° F (-40° to +65° C)
 Sensor Accuracy ±0.5°F (±0.3°C) See Graph Below



Radiation Induced Error +4°F (2°C) at solar noon (insolation = 1040 W/m2, avg. wind speed ≤2 mph (1 m/s)) (reference: RM Young Model 43408 Fan-Aspirated Radiation Shield)
 Update Interval 10 seconds
 Alarms High and Low Thresholds from Current Reading

24-Hour Fan-Aspirated Radiation Shield

Aspiration Rate
 Solar-powered, full sun 190 ft./min. (0.96m/s)
 Battery only 80 feet/min (0.4 m/s)
 Radiation Induced Temperature Error 0.5°F (0.3°C)
 [At solar noon, insolation = 1040 W/m2]
 (Reference: RM Young model 43408)
 Battery Charge/Operating Temperature 32° to +113°F (0° to +45°C)
 Battery Discharge/Storage Temperature 4° to +140°F (-20° to +60°C)
 Fan Primary Power Solar panel
 Fan Secondary Power One or two 1.2 v NiMH C-cells

Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
6830	TBD" x TBD" x TBD" (TBD mm x TBD mm x TBD mm)	TBD lbs. (TBD kg)	011698 01236 7
6832			