

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

Sensor Type: Relative Humidity..... Film capacitor element Dimensions Weight

Sensor Output

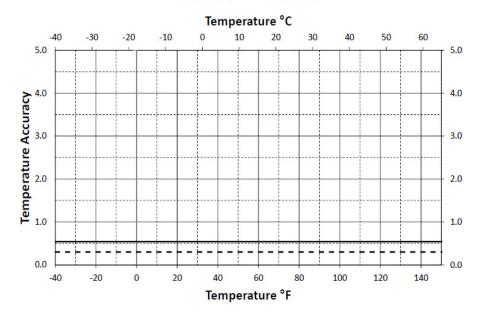
Relative Humidity

Drift......<0.25% per year

Temperature (Air only)



--- Accuracy °F -- Accuracy °C



+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

24-Hour Fan-Aspirated Radiation Shield

Aspiration Rate

Battery only 80 feet/min (0.4 m/s)

Radiation Induced Temperature Error +0.6°F (0.3°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)

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	8" x 5" x 10" (L x W x H) (203 mm x 127 mm x 254 mm)	4 lbs. 5 oz. (2 kg)	011698 01236 7
6832	11" x 10.25" x 16" (L x W x H) (279 mm x 260 mm x 406 mm)	6 lbs. 10 oz. (3 kg)	011698 01244 2