

With Passive Shielding

The Wireless Temperature/Humidity Station 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. It can be used with any wireless Vantage Pro2™ weather station as well as all other compatible wireless stations.

The humidity sensor is a thin film capacitor element. A dielectric polymer layer absorbs water molecules from the air through a thin metal electrode, which causes a change in capacitance proportional to relative humidity. The temperature sensor is a precision thermistor that produces a resistance change proportional to temperature. The sensors are mounted next to one another in the sensor interface module (SIM) to ensure a close correlation between relative humidity and temperature readings. Relative humidity and temperature are used to calculate dew point.

The Wireless Temperature/Humidity Station includes temperature and humidity sensors, transmitter, and a passive solar radiation shield. Please refer to the WeatherLink® for Vantage Pro® and Vantage Pro2™ specification sheet for optional data logging and charting capabilities available for this product.

General

Table with specifications: Operating Temperature (-40° to +150° F), Storage Temperature (-50° to +158° F), Current Draw (0.14 mA average), Battery (CR-123 3-Volt Lithium cell), Battery Life (8 months), Sensor Type (Temperature: Thermistor, Relative Humidity: Film capacitor element), Housing Material (UV-resistant PVC plastic), Dimensions (7.50" x 8.50" x 6.00"), Weight (3.5 lbs.).

Wireless Communications

Table with communication specifications: Transmit/Receive Frequency (US Models: 902-928 MHz FHSS, Overseas Models: 868.0 - 868.6 MHz FHSS), ID Codes Available (8), Output Power (902-928 MHz FHSS: FCC-certified low power, less than 8 mW, no license required; 868.0 - 868.6 MHz FHSS: CE-certified, less than 8 mW, no license required), Range (Line of Sight: up to 1000 feet (300 m), Through Walls: 200 to 400 feet (75 to 150 m)).

Sensor Output

Relative Humidity

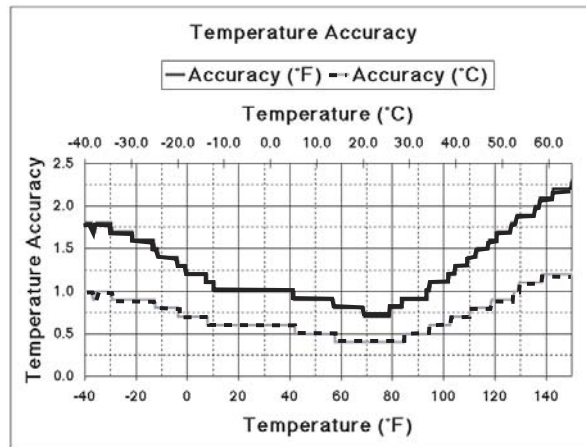
Table with sensor output specifications: Resolution and Units (1%), Range (1 to 100% RH), Accuracy (±3% (0 to 90% RH), ±4% (90 to 100% RH)), Drift (up to ±2% per year), Update Interval (50 seconds (depending on ID code)), Alarms (High and Low Threshold from Instant Reading).

Vantage Pro2™ Accessories

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 ±1°F (±0.5°C) typical (see chart)
- Radiation Induced Error +2°F (1°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 (depending on ID code)
- Alarms High and Low Thresholds from Instant Reading

Temperature Chart



Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
6382	8.75" x 7.75" x 5.25" (223 mm x 197 mm x 134 mm)	3.5 lbs. (1.6 kg)	011698 00743 1
6382OV			011698 00744 8