

Wireless Temperature/Humidity Station

With Passive Radiation Shielding



6382

Vantage Pro2™ Accessories

The Wireless Temperature/Humidity Station measures relative humidity and air temperature and can be used with any wireless Vantage Pro2™ weather station as well as Vantage Connect, Wireless Weather Envoy, and Envoy8X. The passive solar radiation shield is made of a proprietary plastic designed for high thermal reflectance and low thermal conductivity.

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

General

Operating Temperature	-40° to +150° F (-40° to +65° C)
Storage Temperature	-40° to +158° F (-40° to +70° C)
Current Draw, Sensors & Transmitter only	0.14 mA (average), 30 mA (peak)
Battery: Sensors & Transmitter	CR-123 3-Volt lithium cell
Battery Life	8 months
Sensor Type:	
Temperature	PN junction silicone diode
Relative Humidity	Film capacitor element
Housing Material	UV-resistant PVC plastic
Dimensions	
Shelter (without antenna)	8" high x 6.5" wide x 2.5" deep (203 mm x 165 mm x 64 mm)
Radiation Shield (with bracket)	8.1" high x 9.5" wide x 7.8" deep (206 mm x 241 mm x 198 mm)
Weight	3.5 lbs. (1.6 kg)

Wireless Communications

Transmit/Receive Frequency	
US Models:	902-928 MHz FHSS
Overseas Models:	868.0 - 868.6 MHz FHSS
ID Codes Available	8
Output Power	
US Models:	902-928 MHz FHSS: FCC-certified low power, less than 8 mW, no license required
EU Models:	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 (60 to 120 m)

Sensor Output

Relative Humidity

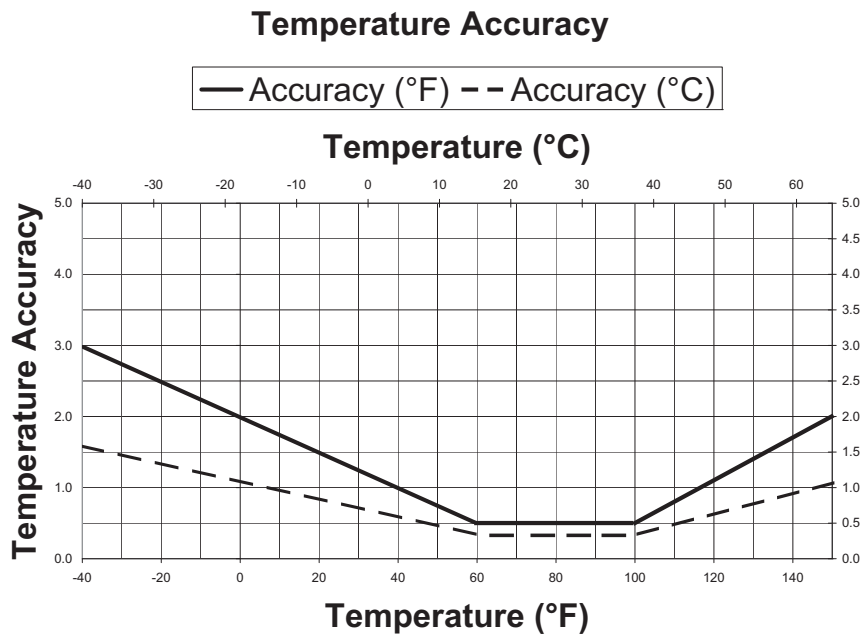
Resolution and Units	1%
Range	1 to 100% RH
Accuracy	±3% (0 to 90% RH), ±4% (90 to 100% RH)
Drift	up to ±2% per year
Update Interval	50 seconds to 1 minute (depending on ID number)
Alarms	High and Low Threshold from Current Reading

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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) above 20°F (-7°C), ±2F (±1°C) under 20°F (-7°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 - 12 seconds (depending on ID number)
- Alarms High and Low Thresholds from Current Reading

Temperature Graph



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