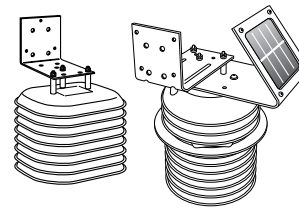


Wireless Temperature/Humidity Station

With Passive Shielding (6380) / With Fan-Aspiration (6385)



6380, 6385

VANTAGE PRO

The Wireless Temperature/Humidity Station measures relative humidity and air temperature. The passive solar radiation shield used in both models is made of a proprietary plastic designed for high thermal reflectance and low thermal conductivity. The **6385** includes a solar-powered fan that draws outside air in over the temperature and humidity sensors to provide even more accurate temperature readings. It can be used with any wireless Vantage Pro weather station as well as all other DavisTalk™-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 platinum wire thermistor that produces a resistance change proportional to temperature. The sensors are mounted next to one another in the sensor interface module (SIM) (**6380**) or next to each other on a daughter-board (**6385**) to ensure a close correlation between relative humidity and temperature readings. The relative humidity and temperature readings are used to calculate dew point.

The Wireless Temperature/Humidity Station includes temperature and humidity sensors, transmitter, passive solar radiation shield (**6380 & 6385**), fan-aspiration (**6385** only), solar panel (**6385** only) and battery. Please refer to the WeatherLink for Vantage Pro Spec Sheet for optional data logging and charting capabilities available for this product.

Specifications

General

Operating Temperature	-40° to +150° F (-40° to +65° C)
Non-operating Temperature	-50° to +158° F (-45° to +70° C)
Current Draw, Sensors & Transmitter only	0.07 mA (average), 10 mA (peak) at 4 to 6 VDC
Battery: Sensors & Transmitter / Fan	CR-123 3-Volt Lithium cell / 2 - 1.2 NiCad C-cells
Battery Life	up to 1 year
Fan Aspiration Rate (6385 only)	190 feet/min. (0.9 m/s) (full sun), 80 feet/min. (0.4 m/s) (battery only)
Sensor Type	
Temperature	Platinum wire thermistor
Relative Humidity	Film capacitor element
Housing Material	UV-resistant plastic
Dimensions	
6380	8.25" wide x 7.25" long x 7.75" high (210 mm x 184 mm x 197 mm)
6385	9.0" wide x 12.0" long x 15.0" high (228 mm x 304 mm x 381 mm)
Weight	
6380	3.5 lbs. (.1.6 kg)
6385	5.44 lbs. (2.47 kg)

DavisTalk Wireless Communications

Transmit/Receive Frequency	US Models: 916.5 MHz, Overseas Models: 868.35 MHz
ID Codes Available	8
Output Power	916.5 MHz: FCC-certified low power, less than 1 mW, no license required 868.35 MHz: CE-certified, less than 10 mW, no license required
Range, Line of Sight	up to 400' (122 m)
Range, Through Walls	100 to 200' (30 to 61 m)

Sensor Output (as used by Davis Instruments weather station consoles.)

Temperature (Air)	
Resolution and Units	1°F or 1°C (user-selectable)
Range	-40° to +150° F (-40° to +65° C)
Sensor Accuracy	±1°F (±0.5°C) under 110°F (43°C), ±2°F (±1°C) over 110°F (43°C) (see chart)
Radiation Induced Error, 6380	+2°F (1°C) at solar noon (insolation = 1040 W/m ² , avg. wind speed ≤ 2 mph (1 m/s)) (reference: RM Young Model 43408 Fan-Aspirated Radiation Shield)
Radiation Induced Error, 6385	+0.6°F (0.33°C) at solar noon (insolation = 1040 W/m ² , avg. wind speed ≤ 2 mph (1 m/s)) (reference: RM Young Model 43408 Fan-Aspirated Radiation Shield)
Update Interval	10 to 12 seconds (depending on DavisTalk ID code)
Data	Instant Reading (user adjustable)
Alarms	High and Low Thresholds from Instant Reading

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Relative Humidity

- Range 1 to 100% RH
- Accuracy $\pm 3\%$ (0 to 90% RH), $\pm 4\%$ (90 to 100% RH)
- Drift up to $\pm 2\%$ per year
- Update Interval 50 seconds to 1 minute (depending on DavisTalk ID code)
- Data Instant (user adjustable)
- Alarms High and Low Threshold from Instant Reading

Temperature Charts

