# **Weather Envoy** Wireless and Cabled Models



Vantage Pro2™ Systems

The Wireless Weather Envoy (# 6316) and Cabled Weather Envoy (# 6316C) provide a quick and easy way to get weather data onto your Windows® or Macintosh® computer using WeatherLink® software.

Weather Envoy includes sensors to measure inside temperature, inside humidity, and barometric pressure. It is intended to be used in conjunction with our Integrated Sensor Suite (ISS) to report outside temperature and humidity. rainfall, wind speed and direction. Using optional sensors, the Weather Envoy can also report solar and UV radiation.

In the wireless version only, you may connect an external temperature probe (6475 or 6477) to replace the Weather Envoy's internal temperature sensor. The Wireless Weather Envoy can also be used in conjunction with our Wireless Temperature, Wireless Temperature and Humidity, and Wireless Leaf and Soil Moisture/Temperature stations. All wireless products communicate via FCC-certified, license-free transmitters and receivers.

The Cabled Weather Envoy is connected directly to the ISS via a cable and cannot be used with any other sensor stations and cannot be used with the Vantage Pro2 console.

Weather Envoy is powered by an included AC-power adapter with three AA battery backup. (Lithium batteries are recommended in low temperature applications.)

Please refer to the Wireless or Cabled Vantage Pro2, (and optional external temperature probe, if used) specification sheets for detailed information outdoor sensors.

#### General

Operating Temperature	0° to +140°F (-18° to +60°C)
Storage Temperature	-22° to +158°F (-30° to +70°C)
Current Draw, Wireless	0.90 mA average, 20 mA peak, (plus 0.125 mA for each optional wireless transmitter in use) at 4 to 6 VDC
Current Draw, Cabled	10 mA average, 15 mA peak at 4 to 6 VDC
AC Power Adapter	5 VDC, 200 mA, regulated
Batteries	3 AA-cells
Backup Battery Life, Wireless	up to 4 months
Backup Battery Life, Cabled	up to 1 month
Connectors	Modular RJ-11
Cable Type (cabled only, not included)	4-conductor, 26 AWG
Housing Material	UV-resistant PVC plastic
Dimensions (length x width x height)	6.5" x 1.5" x 3.75" (165 mm x 38 mm x 95 mm)
Weight (with batteries)	0.58 lbs. (0.26 kg)

## Communication (Wireless Version Only)

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 Inputs

RF Filtering	. RC low-pass filter on each signal line

#### **Weather Envoy**

## Sensor Data From Envoy

#### Barometric Pressure (sensor located in Envoy)

Resolution and Units . . . . . . . . . . . . . . . . . Measured in 0.01" Hg. Other units are converted from Hg and

rounded to nearest 0.1 mm, 0.1 hPa, 0.1mb.

Sea-Level Reduction Equation Used . . . . . . . . . . . . . . United States Method employed prior to use of current "R Factor"

method

Change  $\pm 0.02$ " (0.7hPa/mb, 0.5 mm Hg) = Slowly

or slowly)

Current and Historical Data . . . . . . . . . . . . . . . . . Based on WeatherLink display

Low Threshold from Current Trend for Storm Warning (Falling Trend)

Range for Rising and Falling Trend Alarms . . . . . . . . . 0.01 to 0.25" Hg (0.1 to 6.4 mm Hg, 0.1 to 8.5 hPa/mb)

### Humidity

Inside Relative Humidity (sensor located in Weather Envoy)

Current and Historical Data . . . . . . . . . . . . . . . . Based on WeatherLink display

#### **Temperature**

Inside Temperature (sensor located in Weather Envoy), or with optional external temperature probe

converted from Fahrenheit and rounded to the nearest 0.1° or 1°C. Historical Graph Data and Alarms: 1°F or 1°C. Celsius is converted

from Fahrenheit and rounded to the nearest 1°C.

Range

Current and Historical Data . . . . . . . . . . . . Based on WeatherLink display

#### Clock

Units . . . . . . Time: 12 or 24 hour format (user-selectable)

Date: US or International format (user-selectable)

Adjustments

and Australia that observe it in AUTO mode, MANUAL setting

available for all other areas)

Date..... Automatic Leap Year

## Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
6316	10.25" x 5.63" x 3.0" (260 mm x 143 mm x 76 mm)	1 lb. (0.45 kg)	011698 00749 3
6316EU			011698 00770 7
6316UK			011698 00771 4
6316C			011698 00757 8
6316CEU			011698 00789 9
6316CUK			011698 00790 5