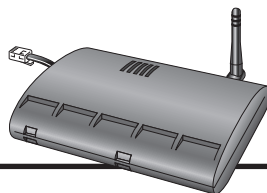


# Weather Envoy

## Wireless and Cabled Models



**6316**  
**6316C**

### 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. (For outdoor sensor specifications, see the specification sheets for the system or sensor.)

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 Weather Station Spec Sheets for detailed information on the Vantage Pro2 ISS data.

## 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)

**Weather Envoy****Communication (Wireless Version Only)**

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## Transmit/Receive Frequency

US Models . . . . .	902-928 MHz FHSS,
EU Models . . . . .	868.0 - 868.6 MHz FHSS
Japan Models . . . . .	928.15 - 929.65 MHz FHSS
NZ Models . . . . .	921-928 Mhz FHSS
India Models . . . . .	865.0 - 867.0 MHz

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.
Japan Models . . . . .	928.15 - 929.65 MHz FHSS, less than 1 mW, no license required.
NZ Models . . . . .	921- 928 MHz FHSS, less than 10mW, no license required.
India Models . . . . .	865.0 - 867.0 MHz, less than 10mW, no license required.

## Range: All models except Japan

Line of Sight . . . . .	up to 1000 feet (300 m)
Through Walls . . . . .	200 to 400 feet (60 to 120 m)

## Range: Japan models

Line of Sight . . . . .	up to 300 feet (100 m)
Through Walls . . . . .	50 to 200 feet (15 to 60m)

**Sensor Inputs**

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

**Sensor Data From Envoy**

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**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.
Corrected Range . . . . .	26.00" to 32.00" Hg, 660 to 810 mm Hg, 880 to 1080 hPa or mb
Uncorrected Range . . . . .	16.00" to 32.50" Hg, 410 to 820 mm Hg, 540 to 1100 hPa or mb
Elevation Range . . . . .	-1500' to +15,300' (-460 m to 4670 m)
Uncorrected Reading Accuracy . . . . .	±0.03" Hg (±0.8 mm Hg, ±1.0 hPa/mb) (at room temperature)
Sea-Level Reduction Equation Used . . . . .	United States Method employed prior to use of current "R Factor" method
Equation Source . . . . .	Smithsonian Meteorological Tables
Equation Accuracy . . . . .	±0.01" Hg (±0.3 mm Hg, ±0.3 hPa/mb)
Elevation Accuracy Required . . . . .	±10' (3m) to meet equation accuracy specification
Overall Accuracy . . . . .	±0.04" Hg (±1.0 mm Hg, ±1.4 hPa/mb)
Trend (change in 3 hours) . . . . .	Change ±0.06" (2.0 hPa/mb, 1.5 mm Hg) = Rapidly Change ±0.02" (0.7hPa/mb, 0.5 mm Hg) = Slowly
Trend Indication . . . . .	5 position arrow: Rising (rapidly or slowly), Steady, or Falling (rapidly or slowly)
Update Interval . . . . .	1 minute
Current and Historical Data . . . . .	Based on WeatherLink display
Alarms . . . . .	High Threshold from Current Trend for Storm Clearing (Rising Trend) 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)

Resolution and Units	1%
Range	1 to 100% RH
Accuracy	±3% from 1% to 90%; ±5% from 90% to 100%
Update Interval	1 minute
Current and Historical Data	Based on WeatherLink display
Alarms	High and Low Threshold from Instant Reading

## Temperature

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

Resolution and Units	Current Data: 0.1°F or 1°F or 0.1°C or 1°C.°(nominal). Celsius is 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	
Inside	0° to +140°F (-18° to +60°C)
External Temperature Probe	-40° to +150°F (-40° to +65°C)
Sensor Accuracy	±1°F (±0.5°C) typical
Update Interval	1 minute
Current and Historical Data	Based on WeatherLink display
Alarms	High and Low Thresholds from Instant Reading

## Clock

Resolution	1 minute
Units	Time: 12 or 24 hour format (user-selectable) Date: US or International format (user-selectable)
Accuracy	±8 seconds/month
Adjustments	
Time	Automatic Daylight Savings Time (for users in North America, Europe 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