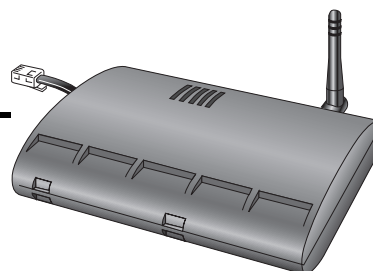


Weather Envoy, Wireless and Cabled Models



**6314
6314C**

VANTAGE PRO

The Wireless Weather Envoy Wireless (6314) and Cabled Weather Envoy (6314C) provide a quick and easy way to get weather data onto your Windows 95 or later computer or Macintosh OS X computer using our WeatherLink software. WeatherLink allows you to log weather data, display graphs and plots on your computer, export weather data to a spreadsheet, and to upload weather information to the internet.

The 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, rain fall, wind speed and direction. Using optional sensors the Weather Envoy can also report solar radiation and UV. The Wireless Weather Envoy can 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 of our smaller sensor stations and cannot be used with the Vantage Pro console. The Weather Envoy may be powered by batteries or by the included AC-power adapter.

Please refer to the Wireless or Cabled Vantage Pro Weather Station Spec Sheets for detailed information on the Vantage Pro ISS.

Specifications

General

Operating Temperature	+14° to +140°F (-10° to +60°C)
Non-operating Temperature	-5° to +158°F (-20° to +70°C)
Current Draw, Cabled	10 mA average, 15 mA peak at 4 to 6 VDC
Current Draw, Wireless	0.67 mA average, 15 mA peak, (plus .125 mA for each optional wireless transmitter in use) at 4 to 6 VDC
AC Power Adapter	5 VDC, 200 mA, regulated
Batteries	3 AA-cells
Battery Life, Cabled	up to 6 months
Battery Life, Wireless	up to 1 month
Connectors	Modular RJ-11
Cable Type	4-conductor, 26 AWG
Housing Material	UV-resistant ABS plastic
Dimensions	
Cabled	6.375" x 3.7" x 1.375" (162 mm x 94 mm x 35 mm)
Wireless (includes antenna)	6.375" x 4.35" x 1.375" (162 mm x 111 mm x 35 mm)
Weight (with batteries)	0.58 lbs. (0.26 kg)

Communications

Transmit/Receive Frequency	US Models: 916.5 MHz, Overseas Models: 868.35 MHz
Transmitter ID Channels 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 feet (120 m)
Through Walls	75 to 150 feet (23 to 46 m) (typical, under most conditions)

Sensor Inputs

RF Filtering	RC low-pass filter on each signal line
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Sensor Outputs

Inside Temperature	
Resolution and Units	Current Data: 0.1°F or 1°F or 0.1°C or 1°C (user-selectable) Historical Data and Alarms: 1°F or 1°C (user-selectable)
Range	+32° to +140°F (0° to +60°C)
Sensor Accuracy	±1°F (±0.5°C) up to 110°F (43°C), ±2°F (±1°C) over 110°F (43°C)
Update Interval	1 minute
Current Data	Instant Reading (user adjustable); Daily and Monthly High and Low
Historical Data	Hourly Readings; Daily and Monthly Highs and Lows
Alarms	High and Low Thresholds from Instant Reading

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Barometric Pressure (sensor located in console)

Resolution and Units	0.01" Hg, 0.1 mm Hg, 0.1 hPa/mb (user-selectable)
Corrected Range	26.00" to 32.00" Hg, 660.0 to 810.0 mm Hg, 880.0 to 1080.0 hPa/mb
Uncorrected Range	18.00" to 33.50" Hg, 457.0 to 850.0 mm Hg, 592.0 to 1130.0 hPa/mb
Elevation Range	-999' to +12,500' (-305 m to 3810 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 ±0.6" (2 hPa/mb, 1.5 mm Hg) = Rapidly Change ±0.2" (.7hPa/mb, .5 mm Hg)= Slowly
Trend Indication	5 position arrow: Rising (rapidly or slowly), Steady, or Falling (rapidly or slowly)
Update Interval	15 minutes or when console BAR key is pressed twice
Current Data	Instant, 15-min., and Hourly Reading; Daily, Monthly, High and Low
Historical Data	15-min. and Hourly Reading; Daily, Monthly Highs and Lows
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)

Inside Relative Humidity (sensor located in console)

Range	10 to 90% RH
Accuracy	±5%
Update Interval	1 minute
Current Data	Instant (user adjustable) and Hourly Reading; Daily, Monthly High and Low
Historical Data	Hourly Readings; Daily, Monthly Highs and Lows
Alarms	High and Low Threshold 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