# Wireless Vantage Pro 2<sup>™</sup> & Vantage Pro Plus 2<sup>™</sup> Stations

Including Fan-Aspirated Models



**VANTAGE PRO2** 

The Vantage Pro2™ (6152, 6153) and Vantage Pro2™ Plus (6162, 6163) Wireless Weather Stations include two components: the Integrated Sensor Suite (ISS) which houses and manages the external sensor array; and the console which provides the user interface, data display, A/D conversion in the ISS, and calculations. The ISS and Vantage Pro2 console communicate via an FCC-certified, license-free frequency hopping transmitter and receiver. User-selectable transmitter ID codes allow up to eight stations to coexist in the same geographic area. The frequency hopping spread spectrum technology provides greater communication strength over longer distances and areas of weaker reception. The Wireless Vantage Pro2™ Plus weather station includes two additional sensors that are optional on the Vantage Pro2: the UV sensor and the solar radiation sensor. The console may be powered by batteries or by the included AC-power adapter. The wireless ISS is solar powered with a battery backup. Use WeatherLink™ for Vantage Pro and Vantage Pro2 to let your weather station interface with a computer, to log weather data, and to upload weather information to the internet.

The **6152** and **6162** rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings. The Fan-aspirated **6153** and **6163** combine passive shielding with a solar-powered fan that draws outside air in over the temperature and humidity sensors, providing a much more accurate temperature reading than that available using passive shielding alone.

### **Specifications**

Co	nso	l۵
-	1130	

mA for each optional wireless transmitter received by the console) at 4 to

6 VDC

AC Power Adapter..... 5 VDC, 900 mA, regulated

Console Display Type . . . . . . . . . LCD Transflective

Dimensions

Integrated Sensor Suite (ISS)

Current Draw (ISS SIM only) . . . . . . . . . . . 0.14 mA (average), 30 mA (peak) at 4 to 6 VDC

Solar Power Panel (ISS SIM / Fan-Aspirated) . 0.5 Watts / 0.75 Watts

charging

Battery Life (NiCad C-cells) . . . . . . . . . . . 1 year

Fan Aspiration Rate (Fan-Aspirated) . . . . . . . 190 feet/min. (0.9 m/s) (full sun), 80 feet/min. (0.4 m/s) (battery only)

(intake flow rate) 500 feet/min. (2.5m/s) (full sun), 280 feet/min. (1.4

m/s) (battery only) (sensor chamber flow rate)

Connectors, Sensor..... Modular RJ-11

Cable Type . . . . . . . . . . . . . . . . 4-conductor, 26 AWG

cm<sup>2</sup>) collection area

Temperature Sensor Type . . . . . . . . . . . Thermistor

Dimensions

Weight

VANTAGE PRO2™

Wire		C		:4:-	
wire	less	Com	mun	ıcatıc	วทร

Transmit/Receive Frequency . . . . . . . . US Models: 902-928 MHz FHSS, Overseas Models: 868.0 - 868.6 MHz FHSS.

ID Codes Available . . . . . . . . . . . . . . . . 8

required

868.0 - 868.6 MHz FHSS. CE-certified, less than 8 mW, no license required

Line of Sight . . . . . . . . . . . . . . . . up to 1000 feet (300 m) 

**Sensor Inputs** 

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

#### Sensor Outputs (as displayed on console)

General

Historical Data . . . . . . . . . Includes the past 24 values listed unless otherwise noted; all can be cleared and

all totals reset

Daily Data..... Includes the earliest time of occurrence of highs and lows; period begins/ends

at 12:00 am

Monthly Data ...... Period begins/ends at 12:00 am on the first of the month

Yearly Data..... Period begins/ends at 12:00 am on the first of January unless otherwise noted

Current Data . . . . . . . . . . . . . . . . Current data appears in the right most column in the console graph and

represents the latest value within the last period on the graph; totals can be set

or reset

availability depends upon variable selected)

Graph Variable Span (Vertical Scale) . . . Automatic (varies depending upon data range); Maximum and Minimum value in

range appear in ticker

battery power. Alarm message is displayed in ticker as long as threshold is met or exceeded. Alarms can be silenced (but not cleared) by pressing the DONE

Update Interval . . . . . . . . . . Varies with sensor - see individual sensor specs

Also varies with transmitter ID code - #1=shortest, #8=longest

Variables Used . . . . . . . . . . . . . . . Barometric Reading & Trend, Wind Speed & Direction, Rainfall, Temperature,

Humidity, Latitude & Longitude, Time of Year

Update Interval . . . . . . . . . . . . . 1 hour

Display Format . . . . . . . . . . . . . . . . lcons on top center of display; detailed message in ticker at bottom

Variables Predicted...... Sky Condition, Precipitation, Temperature Changes, Wind Direction and Speed

Changes

Outside Temperature (sensor located in ISS)

Resolution and Units...... Current Data: 0.1°F or 1°F or 0.1°C or 1°C (user-selectable) nominal (see Fig.

1) Historical Data and Alarms: 1°F or 1°C (user-selectable)

Range.....-40° to +150°F (-40° to +65°C)

Radiation Induced Error (Passive Shield) +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)

Radiation Induced Error (Fan-Aspirated). +0.6°F (0.3°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 to 12 seconds

Current Data . . . . . . . . . . . . . . . . Instant Reading (user adjustable); Daily, Monthly, Yearly High and Low

Historical Data ...... Hourly Readings; Daily, Monthly, Yearly Highs and Lows

Alarms . . . . . . High and Low Thresholds from Instant Reading

Extra Temperature Sensors or Probes

Historical Data and Alarms: 1°F or 1°C (user-selectable)

Range.....-40° to +150°F (-40° to +65°C)

Sensor Accuracy...... ±1°F (±0.5°C) up to 110°F (43°C), ±2°F (±1°C) over 110°F (43°C) (see Fig. 2) 

Moisture/Temperature Stations)

Current Data . . . . . . . . . . . . . Instant Reading (user adjustable) Alarms ...... High and Low Thresholds from Instant Reading

Inside Temperature (sensor located in console)

Historical Data and Alarms: 1°F or 1°C (user-selectable)

Range.....+32° to +140°F (0° to +60°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
	High and Low Thresholds from Instant Reading
	Fight and Low Thresholds from histant Reading
Wind Speed	
Resolution and Units	1 mph, 1 km/h, 0.1 m/s, or 1 knot (user-selectable)
Range (large wind cups)	2 to 150 mph, 2 to 130 knots, 1 to 67 m/s, 3 to 241 km/h
Range (small wind cups)	3 to 175 mph, 3 to 150 knots, 1.5 to 79 m/s, 5 to 282 km/h
• • • • • • • • • • • • • • • • • • • •	Instant Reading: 2.5 to 3 seconds, 10-minute Average: 1 minute
	±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater
	±3 mph (3 kts, 5 km/h, 1.5 m/s) or ±5%, whichever is greater
Maximum Cable Length	
Current Data	Instant Reading; 10-minute and Hourly Average; Hourly High; Daily, Monthly and
	Yearly High with Direction of High
Historical Data	10-min. and Hourly Averages; Hourly Highs; Daily, Monthly and Yearly Highs
	with Direction of Highs
Alormo	High Thresholds from Instant Reading and 10-minute Average
	Thigh Thresholds from histant Reading and 10-minute Average
Wind Direction	
• •	16 points (22.5°) on compass rose, 1° in numeric display
Accuracy	±7°
Update Interval	2.5 to 3 seconds
Current Data	Instant Reading (user adjustable); 10-min. Dominant; Hourly, Daily, Monthly
	Dominant
Historical Data	Past 6 10-min. Dominants on compass rose only; Hourly, Daily, Monthly
Historical Data	
	Dominants
Wind Chill (Calculated)	
Resolution and Units	1°F or 1°C (user-selectable)
Range	110° to +130°F (-79° to +54°C)
Accuracy	±2°F (±1°C) (typical)
Update Interval	
	United States National Weather Service (NWS)/NOAA
	Osczevski (1995) (adopted by US NWS in 2001)
	Instant Outside Temperature and 10-min. Avg. Wind Speed
	Instant Calculation; Hourly, Daily and Monthly Low
Historical Data	Hourly, Daily and Monthly Lows
Alarm	Low Threshold from Instant Calculation
	25W THIOSHOIL HOIL HISLAND GUIGALLON
Rainfall	
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Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate	<ul> <li>. 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li>. 0 to 99.99" (0 to 9999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li>. Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li>. Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li>. High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> </ul>
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Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range	<ul> <li>. 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li>. 0 to 99.99" (0 to 9999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li>. Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li>. Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li>. High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li>. 0 to 99.99" (0 to 999.7 mm)</li> <li>. 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li>. 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy	<ul> <li>. 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li>. 0 to 99.99" (0 to 9999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li>. Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li>. Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li>. High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li>. 0 to 99.99" (0 to 999.7 mm)</li> <li>. 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li>. 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> <li>. ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval	<ul> <li>. 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li>. 0 to 99.99" (0 to 9999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li>. Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li>. Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li>. High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li>. 0 to 99.99" (0 to 999.7 mm )</li> <li>. 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li>. 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> <li>. ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater</li> <li>. 10 to 12 seconds</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval	<ul> <li>. 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li>. 0 to 99.99" (0 to 9999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li>. Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li>. Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li>. High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li>. 0 to 99.99" (0 to 999.7 mm)</li> <li>. 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li>. 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> <li>. ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. Measures time between successive tips of rain collector. Elapsed time greater</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method	<ul> <li>. 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li>. 0 to 99.99" (0 to 9999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li>. Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li>. Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li>. High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li>. 0 to 99.99" (0 to 999.7 mm)</li> <li>. 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li>. 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> <li>. ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater than 15 minutes or only one tip of the rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero.</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method  Current Data	<ul> <li>. 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li>. 0 to 99.99" (0 to 9999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li>. Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li>. Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li>. High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li>. 0 to 99.99" (0 to 999.7 mm)</li> <li>. 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li>. 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> <li>. ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. Measures time between successive tips of rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero.</li> <li>. Instant and 1-min. Reading; Hourly, Daily, Monthly and Yearly High</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method  Current Data  Historical Data  Accuracy Update Interval Calculation Method  Current Data Historical Data  Historical Data	<ul> <li> 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li> 0 to 99.99" (0 to 9999 mm)</li> <li> 0 to 199.99" (0 to 19999 mm)</li> <li> 0 to 199.99" (0 to 19999 mm)</li> <li> For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li> 10 to 12 seconds</li> <li> 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li> Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li> Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li> High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li> 0 to 99.99" (0 to 999.7 mm)</li> <li> 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li> 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> <li> ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater</li> <li> 10 to 12 seconds</li> <li> Measures time between successive tips of rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero.</li> <li> Instant and 1-min. Reading; Hourly, Daily, Monthly and Yearly High</li> <li> 1-min Reading; Hourly, Daily, Monthly and Yearly Highs</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method  Current Data  Historical Data  Accuracy Update Interval Calculation Method  Current Data Historical Data  Historical Data	<ul> <li> 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li> 0 to 99.99" (0 to 9999 mm)</li> <li> 0 to 199.99" (0 to 19999 mm)</li> <li> 0 to 199.99" (0 to 19999 mm)</li> <li> For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li> 10 to 12 seconds</li> <li> 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li> Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li> Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li> High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li> 0 to 99.99" (0 to 999.7 mm)</li> <li> 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li> 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> <li> ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater</li> <li> 10 to 12 seconds</li> <li> Measures time between successive tips of rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero.</li> <li> Instant and 1-min. Reading; Hourly, Daily, Monthly and Yearly High</li> <li> 1-min Reading; Hourly, Daily, Monthly and Yearly Highs</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method  Current Data  Accuracy Calculation Method  Current Data Historical Data Alarm	<ul> <li>. 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li>. 0 to 99.99" (0 to 9999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li>. Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li>. Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li>. High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li>. 0 to 99.99" (0 to 999.7 mm)</li> <li>. 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li>. 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> <li>. ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater than 15 minutes or only one tip of the rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero.</li> <li>. Instant and 1-min. Reading; Hourly, Daily, Monthly and Yearly Highs</li> <li>. High Threshold from Instant Reading</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method  Current Data  Barometric Pressure (sensor located in conse	0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm) . 0 to 99.99" (0 to 9999 mm) . 0 to 199.99" (0 to 19999 mm) . 0 to 199.99" (0 to 19999 mm) . For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater . 10 to 12 seconds . 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event . Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero . Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates) . High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total, . 0 to 99.99" (0 to 999.7 mm)  . 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4) . 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr) . ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater than 15 minutes or only one tip of the rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero. Instant and 1-min. Reading; Hourly, Daily, Monthly and Yearly High . 1-min Reading; Hourly, Daily, Monthly and Yearly Highs . High Threshold from Instant Reading
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method  Current Data  Barometric Pressure (sensor located in conse	<ul> <li>. 0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm)</li> <li>. 0 to 99.99" (0 to 9999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. 0 to 199.99" (0 to 19999 mm)</li> <li>. For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater</li> <li>. 10 to 12 seconds</li> <li>. 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event</li> <li>. Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero</li> <li>. Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates)</li> <li>. High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total,</li> <li>. 0 to 99.99" (0 to 999.7 mm)</li> <li>. 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4)</li> <li>. 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr)</li> <li>. ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater than 15 minutes or only one tip of the rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero.</li> <li>. Instant and 1-min. Reading; Hourly, Daily, Monthly and Yearly High</li> <li>. 1-min Reading; Hourly, Daily, Monthly and Yearly Highs</li> <li>. High Threshold from Instant Reading</li> <li>iole)</li> <li>. 0.01" Hg, 0.1 mm Hg, 0.1 hPa/mb (user-selectable)</li> </ul>
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method  Current Data  Barometric Pressure (sensor located in conse Resolution and Units Corrected Range	0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm) . 0 to 99.99" (0 to 9999 mm) . 0 to 199.99" (0 to 19999 mm) . 0 to 199.99" (0 to 19999 mm) . For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater . 10 to 12 seconds . 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event . Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero . Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates) . High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total, . 0 to 99.99" (0 to 999.7 mm) . 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4) . 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr) . ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater . 10 to 12 seconds . Measures time between successive tips of rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero Instant and 1-min. Reading; Hourly, Daily, Monthly and Yearly High . 1-min Reading; Hourly, Daily, Monthly and Yearly Highs . High Threshold from Instant Reading tole) . 0.01" Hg, 0.1 mm Hg, 0.1 hPa/mb (user-selectable) . 26.00" to 32.00" Hg, 660.0 to 810.0 mm Hg, 880.0 to 1080.0 hPa/mb
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method  Current Data  Barometric Pressure (sensor located in cons Resolution and Units Corrected Range Uncorrected Range	0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm) . 0 to 99.99" (0 to 9999 mm) . 0 to 199.99" (0 to 19999 mm) . 1 to 199.99" (0 to 19999 mm) . For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater . 10 to 12 seconds . 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event . Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero . Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates) . High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total, . 0 to 99.99" (0 to 999.7 mm) . 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4) . 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr) . ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater .10 to 12 seconds . Measures time between successive tips of rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero Instant and 1-min. Reading; Hourly, Daily, Monthly and Yearly High . 1-min Reading; Hourly, Daily, Monthly and Yearly Highs . High Threshold from Instant Reading tole) . 0.01" Hg, 0.1 mm Hg, 0.1 hPa/mb (user-selectable) . 26.00" to 32.00" Hg, 660.0 to 810.0 mm Hg, 880.0 to 1080.0 hPa/mb . 18.00" to 33.50" Hg, 457.0 to 850.0 mm Hg, 592.0 to 1130.0 hPa/mb
Rainfall Resolution and Units Daily/Storm Rainfall Range Monthly/Yearly/Total Rainfall Range. Rain Rate. Accuracy  Update Interval Storm Determination Method  Current Data  Historical Data  Alarms  Range for Rain Alarms  Rain Rate Resolution and Units Range Accuracy Update Interval Calculation Method  Current Data  Barometric Pressure (sensor located in cons Resolution and Units Corrected Range Uncorrected Range	0.01" or 0.25 mm (user-selectable) (1 mm at totals ≥ 2000 mm) . 0 to 99.99" (0 to 9999 mm) . 0 to 199.99" (0 to 19999 mm) . 0 to 199.99" (0 to 19999 mm) . For rain rates up to 2"/hr (50 mm/hr): ±4% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater For rain rates from 2"/hr (50 mm/hr) to 4"/hr (100 mm/hr): ±5% of total or +0.01" (0.25 mm) (0.01" = one tip of the bucket), whichever is greater . 10 to 12 seconds . 0.02" (0.5 mm) begins a storm event, 24 hours without further accumlulation ends a storm event . Totals for Past 15-min, Past 24-hour, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin date); Umbrella is displayed when 15 minute Total exceeds zero . Totals for 15-min, Daily, Monthly, Yearly (start date user-selectable) and Storm (with begin and end dates) . High Threshold from Latest Flash Flood (15-min. Total, default is 0.50", 12.7 mm), 24-hour Total, Storm Total, . 0 to 99.99" (0 to 999.7 mm) . 0.01" or 0.25 mm (user-selectable) at typical rates (see Fig. 3 and 4) . 0, 0.04"/hr (1 mm/hr) to 100"/hr (0 to 1999.9 mm/hr) . ±5% or ±0.04"/hr (1 mm/hr) (up to 10"/hr. (250 mm/hr.)), whichever is greater . 10 to 12 seconds . Measures time between successive tips of rain collector. Elapsed time greater than 15 minutes or only one tip of the rain collector constitutes a rain rate of zero Instant and 1-min. Reading; Hourly, Daily, Monthly and Yearly High . 1-min Reading; Hourly, Daily, Monthly and Yearly Highs . High Threshold from Instant Reading tole) . 0.01" Hg, 0.1 mm Hg, 0.1 hPa/mb (user-selectable) . 26.00" to 32.00" Hg, 660.0 to 810.0 mm Hg, 880.0 to 1080.0 hPa/mb

VANTAGE PRO2™

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 Š0.2" (.7hPa/mb. .5 mm Hg)= Slowly Trend Indication . . . . . . . . . 5 position arrow: Rising (rapidly or slowly), Steady, or Falling (rapidly or slowly) Current Data . . . . . . . . . . . . Instant, 15-min., and Hourly Reading; Daily, Monthly, High and Low 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 Outside Relative Humidity (sensor located in ISS) Range..... 1 to 100% RH Accuracy..... ±3% (0 to 90% RH), ±4% (90 to 100% RH) Temperature Coefficient . . . . . . . . . . 0.03% per °F (0.05% per °C), reference 68°F (20°C) Drift . . . . . . . . . . . . . . ±0.5% per year Update Interval . . . . . . . . . . . . . 50 seconds to 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 Extra Outside Relative Humidity (sensor located inside Temperature/Humidity Station) Range..... 0 to 100% RH Accuracy..... ±3% (0 to 90% RH), ±4% (90 to 100% RH) Temperature Coefficient . . . . . . . . . . 0.03% per °F (0.05% per °C), reference 68°F (20°C) Update Interval . . . . . . . . . . . . . 50 seconds to 1 minute Current Data . . . . . . . . . . . Instant Reading (user adjustable) Alarms ...... High and Low Threshold from Instant Reading Dewpoint (calculated) Range.....-105° to +130°F (-76° to +54°C) Accuracy..... ±3°F (±1.5°C) (typical) Source . . . . . . . . . . . . . . . . World Meteorlogical Organization (WMO) Equation Used . . . . . . . . . . . . WMO Equation with respect to saturation of moist air over water Variables Used . . . . . . . . . . Instant Outside Temperature and Instant Outside Relative Humidity Current Data . . . . . . . . . . . . Instant Calculation; Daily, Monthly High and Low Historical Data . . . . . . Hourly Calculations; Daily, Monthly Highs and Lows Alarms . . . . . . High and Low Threshold from Instant Calculation Heat Index (calculated) Range.....-40° to +135°F (-40° to +57°C) Accuracy..... ±3°F (±1.5°C) (typical) Update Interval . . . . . . . . . . . . . . . . . 10 to 12 seconds Source . . . . . . . . . . United States National Weather Service(NWS)/NOAA Formulation Used . . . . . . . . . Steadman (1979) modified by US NWS/NOAA and Davis Instruments to increase range of use Variables Used . . . . . . . . . . Instant Outside Temperature and Instant Outside Relative Humidity Current Data . . . . . . . . . . . . Instant Calculation; Daily, Monthly High Historical Data ...... Hourly Calculations; Daily, Monthly Highs Alarm . . . . . . High Threshold from Instant Calculation Evapotranspiration (calculated, requires solar radiation sensor) Resolution and Units...... 0.01" or 0.25 mm (user-selectable) Range...... Daily to 99.99" (999.9 mm); Monthly & Yearly to 199.99" (1999.9 mm) 

Update Interval . . . . . . . . . . . . . 1 hour Calculation and Source . . . . . . . . . Penman-Monteith Equation as implemented by CIMIS (California Irrigation

a CIMIS ET weather station

	Market and Control of the National Association
Current Data	Management Information System) including Net Radiation calculation Latest Hourly Total Calculation, Daily, Monthly, Yearly Total
Historical Data	
	High Threshold from Latest Daily Total Calculation
Solar Radiation (requires solar radiation sens	
Resolution and Units	
Range	
Accuracy	±5% of full scale (Reference: Eppley PSP at 1000 W/m²)
Drift	
	±3% for angle of incidence from 0° to 75°
Temperature Coefficient	0.067% per °F (-0.12% per °C); reference temperature = 77°F (25 °C)
	50 seconds to 1 minute (5 minutes when dark)
Historical Data	. Instant Reading and Hourly Average; Daily, Monthly High
Alarm	
Temperature Humidity Sun Wind Index (requi	· · · · · · · · · · · · · · · · · · ·
Resolution and Units	
Range	90° to +135°F (-68° to +64°C)
Accuracy	
Update Interval	
Sources and Formulation Used	. United States National Weather Service(NWS)/NOAA
	Steadman (1979) modified by US NWS/NOAA and Davis Instruments to
Variables Head	increase range of use and allow for cold weather use . Instant Outside Temperature, Instant Outside Relative Humidity, 10-minute
variables osed	Average Wind Speed, 10-minute Average Solar Radiation
Formulation Description	Uses Heat Index as base temperature, affects of wind and solar radiation are
	either added or subtracted from this base to give an overall effective
	tempertature
	Instant and Hourly Calculation; Daily, Monthly High
	. Hourly Calculation; Daily, Monthly Highs
Alarm	S S S S S S S S S S S S S S S S S S S
Ultra Violet (UV) Radiation Index (requires UV) Resolution and Units	
Range	
•	±5% of full scale (Reference: Yankee UVB-1 at UV index 10 (Extremely High))
	. ±4% (0° to 65° incident angle); 9% (65° to 85° incident angle)
	50 seconds to 1 minute (5 minutes when dark)
	Instant Reading and Hourly Average; Daily, Monthly High
Historical Data	
	. High Threshold from Instant Calculation
Ultra Violet (UV) Radiation Dose (requires U\	
Resolution and Onlis	0.1 MEDs to 19.9 MEDs; 1 MED above 19.9 MEDS
Accuracy	
Drift	
	50 seconds to 1 minute (5 minutes when dark)
	Latest Daily Total (user resetable at any time from Current Screen)
Historical Data	. Hourly, Daily Totals (user reset from Current Screen does not affect these
	values)
Alarm Banga	
Alarm Range	0 to 19.9 MEDS
Resolution	. 1 ch
Range	
Update Interval	
	Instant Reading; Daily and Monthly High and Low
Historical Data	. Hourly Readings; Daily and Monthly Highs and Lows
	High and Low Thresholds from Instant Reading
Leaf Wetness (requires leaf wetness Sensor)	
Resolution	
Dry/Wet Threshold	
Accuracy	
Update Interval	
	Instant Reading; Daily High and Low; Monthly High
Historical Data	Hourly Readings; Daily Highs and Lows; Monthly Highs
	High and Low Thresholds from Instant Reading
Moon Phase	1/8 (12.5%) of a lunar cycle. 1/4 (25%) of lighted face on console
COUSOR RESOURED	1/o crz.5%) ura iunai cycle. 1/4 (Z5%) uriunteu face un console

## Wireless Vantage Pro 2™ & Vantage Pro Plus 2™ Stations

VANTAGE PRO2™

resolution)

Range...... New Moon, Waxing Cresent, First Quarter, Waxing Gibbous, Full Moon,

Wanning Gibbous, Last Quarter, Waning Cresent

Accuracy.....±38 minutes

Sunrise and Sunset

Reference..... United States Naval Observatory

Clock

Resolution . . . . . . . . . . . . . 1 minute

Accuracy..... ±8 seconds/month

Australia that observe it in AUTO mode, MANUAL setting available for all other

areas)

Date: Automatic Leap Year

Alarms ...... Once per day at set time when active

#### **Sensor Charts**

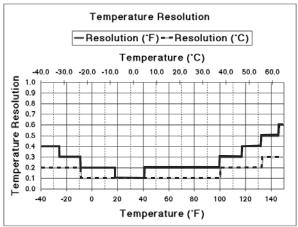


Figure 1. Temperature Resolution

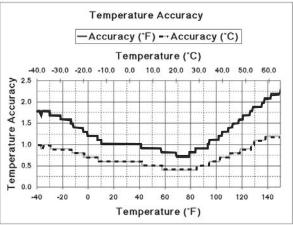


Figure 2. Temperature Accuracy

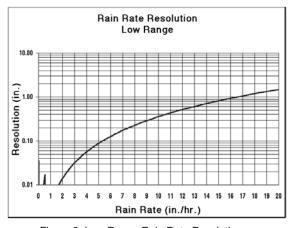


Figure 3. Low Range Rain Rate Resolution

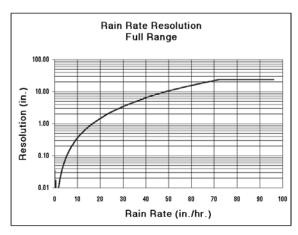


Figure 4. Full Range Rain Rate Resolution