

Sensor Accuracy, Resolution, and Range

Function		Vantage Pro2	Perception II	Weather Wizard III	Weather Monitor II	U.S.A. Units			Metric Units		
						Resolution	Range	Accuracy ±	Resolution	Range	Accuracy ±
Agricultural	Evapotranspiration	●				0.01"	Day: to 99.99" Month: to 199.99" Year: to 199.99"	5%	0.1 mm	Day: to 999.9 mm Month: to 1999.9 mm Year: to 1999.9 mm	5%
	Growing Degree-Days	○				Day: 0.1 D-Day Avg: 0.1 D-Day Total: 1 D-Day	Day: to 400 D-Days Avg: to 400 D-Days Total: to 19,999 D-Days		Day: 0.1 D-Day Avg: 0.1 D-Day Total: 1 D-Day	Day: to 220 D-Days Avg: to 220 D-Days Total: to 19,999 D-Days	
	Leaf Wetness	●				1	0 to 15	0.5	1	0 to 15	0.5
	Soil Moisture	●				1 cb	0 to 200 cb		1 cb	0 to 200 cb	
Barometric Pressure	Barometric Pressure (Elevation range: -1000' to +12,500'; -300 to +3800 m)	✓	✓		✓	0.01" Hg	26" to 32" Hg	0.03" Hg	0.1 mm Hg	660 to 810 mm Hg	0.8 mm Hg
		✓	✓		✓				0.1 mb	880 to 1080 mb	1.0 mb
		✓							0.1 hPa	880 to 1080 hPa	1.0 hPa
	Three-Hour Trend	✓				Slow ≥ 0.02" Hg Rapid ≥ 0.06" Hg	5-Position Arrow		Slow ≥ 0.5 mm (0.7 mb) Rapid ≥ 1.5 mm (2 mb)	5-Position Arrow	
One-Hour Trend		✓		✓	Change ≥ 0.02" Hg	3-Position Arrow		Change ≥ 5 mm (0.7 mb, 0.7 hPa)	3-Position Arrow		
Humidity	Inside Humidity	✓	✓		✓	1%	10% to 90%	5%	1%	10% to 90%	5%
	Outside Humidity	✓			●	1%	0% to 100%	3%	1%	0% to 100%	3%
	Dew Point	✓			●	1°F	-105° to +130°F	3°F	1°C	-76° to +54°C	1.5°C
Rainfall	Rainfall	✓				0.01"	Day: 0 to 99.99" Storm: 0 to 99.99" Month: 0 to 199.99" Year: 0 to 199.99"	4%	0.2 mm. (Rounded to 1 mm at 2000 mm and above.)	Day: 0 to 9999 mm Storm: 0 to 9999 mm Month: 0 to 19,999 mm Year: 0 to 19,999 mm	4%
				●	●	0.01"	Day: 0 to 40.95" Total: 0 to 99.99"	4%	0.2 mm	Day: 0 to 819 mm Total: 0 to 9999 mm	4%
	Rate of Rainfall	✓				0.01"	0 to 99.99"/hr	5%	0.1 mm	0 to 1999.9 mm/hr	5%
Solar & UV	Solar Radiation	●				1 W/m ²	0 to 1800 W/m ²	5%	1 W/m ²	0 to 1800 W/m ²	5%
	Solar Energy	○				0.1 Ly	1999.9 Ly	5%	PC: 0.1 J/cm ²	PC: 1999.9 J/cm ²	5%
	UV Dose	●				0.1 MEDs	0 to 199 MEDs	5%	0.1 MEDs	0 to 199 MEDs	5%
	UV Index	●				0.1	0 to 16	5%	0.1	0 to 16	5%
Temperature	Inside Temperature	✓	✓	✓	✓	0.1°F	32° to 140°F	1°F	0.1°C	0° to 60°C	0.5°C
	Outside Temperature	✓		✓	✓	0.1°F	-40° to +150°F	1°F	0.1°C	-40° to +65°C	0.5°C
	Soil or Water Temperature	●				1°F	-40° to +150°F	1°F	1°C	-40° to +65°C	0.5°C
	Outside Temp-Hum Index	✓				1°F	-40° to +135°F	3°F	1°C	-40° to +57°C	1.5°C
	Temp-Hum-Sun-Wind Index	●				1°F	-90° to +135°F	4°F	1°C	-68° to +64°C	2°C
	Wind Chill	✓		✓	✓	1°F	-110° to +130°F	2°F	1°C	-79° to +54°C	1°C
Time/Date	Time	✓	✓	✓	✓	1 minute	12 hours	8 sec/mo	1 minute	24 hours	8 sec/mo
	Date	✓	✓	✓	✓	month/day		8 sec/mo	day/month		8 sec/mo
	Sunrise & Sunset	✓				1 minute			1 minute		
Wind	Wind Direction	✓		✓	✓	1°	0° to 360°	7°	1°	0° to 360°	7°
				✓	✓	10°	0° to 360°	7°	10°	0° to 360°	7°
	Compass Rose	✓		✓	✓	22.5°	16 compass points	7°	22.5°	16 compass points	7°
	Wind Speed	✓		✓	✓	1 mph 1 knot	2 to 150 mph 2 to 130 knots	5%	0.1 m/s 1 km/hr	1 to 67 m/s, 3 to 241 km/hr	5%
	Direction of High Speed	✓				22.5°	16 compass points	7°	22.5°	16 compass points	7°

- ✓ Included
- Optional, shown on console
- Optional, requires WeatherLink

Unless listed separately, accuracy, resolution, and range are for Vantage Pro2 stations. Specifications for Perception, Wizard, and Monitor may be somewhat different. For complete specifications, visit our website at www.davisnet.com/links.

"Resolution" refers to the number of digits or decimals places displayed on the console. Our rain collector reads in true 0.01" or 0.2 mm increments. All other weather variables are measured and accumulated in U.S. units of measure, which are then converted to metric units for display purposes.

Wizard and Monitor calculate and display wind chill according to the original National Weather Service Formula. A new formula was adopted in 2001. For wind chill using this formula, view the data using WeatherLink or choose Vantage Pro2 instead.