



WeatherHawk Series 500 Specifications

Weather Station

Temperature Range:	-40 to +122F (-40 to +50C)
Data Storage:	60 days of hourly data
I/O:	Direct connection RS232 Optional Wireless RF
I/O Data Rate:	9600 baud
Wireless Frequency:	Spread Spectrum 916 MHz
Battery:	Integrated 2.9 Ahr Lead-Acid GelCel
Charging Voltage:	16 to 22 VDC
Current Drain:	10 mA w/o heater 1.1 A with heater



Sensors

Air Temperature:	Capacitive ceramic
Range	-60 to +140F (-52 to +60 C)
Accuracy:	+/-0.9 F @ -40 to 125 F (+-0.5 C @-40 to 52 C)
Resolution:	0.1 F (0.1 C)
Relative Humidity:	Capacitive thin-film polymer
Range	0-100%
Accuracy:	+/- 3% @ 0-90%RH; +/- 5% @ 90-100%RH
Resolution:	0.1%
Barometric Pressure:	Capacitive Silicon
Range:	17.72-32.48 inHg (60-110 kPa)
Accuracy:	.015 inHg @+32 to +86 F (+-.05 kPa @0-32 C)
Resolution:	.03 inHg @-60 to +140 F (+-.1 kPa @-52 to +60 C)
Solar Radiation:	Silicon pyranometer
Spectral Range	300 to 1100 nm
Reproducibility	+/-2%
Output	.2 mV per W/m ²
Range	0 to 1000 W/m ²
Temp. Range	-40 to 130 F (-40 to +55 C)
Rain:	Piezoelectric
Collecting Area	9.3 in ² (60 cm ²)
Range	0 to 7.87 in/hr (0 to 200 mm/hr)
Accuracy:	<5% (weather dependant)
Resolution	.001 in (.01 mm)
Wind Direction:	Ultrasonic
Azimuth:	0-360 deg
Response Time:	250 ms
Accuracy:	+ - 2 deg
Resolution:	1 deg
Wind Speed:	Ultrasonic
Range:	0-134 mph (0-60 m/s)
Response Time:	.25 s
Accuracy:	+-.67 mph (+- 0.3m/s) or +-2% which ever is greater
Resolution:	.22 mph (0.1 m/s)

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