



KestrelMet® 6000 Wi-Fi Specifications

SENSORS	Accuracy (+/-)	Resolution	Range	Notes
Wind Speed	larger of 5% or 1 mph between 1 to 145 mph	0.1 mph 0.1 knot 0.1m/s 0.1 km/hr	1 to 145 mph 1 to 126 knots 1 to 64.8 m/s 1 to 233.4 km/hr	Wind speed is measured continuously and stored in station memory as a series of 2 second averages. The reported wind speed is the average over the 1 minute logging interval. The highest measured speed during the logging interval is reported as the gust value.
Wind Direction	2°	1°	1° - 360°	Wind direction is measured continuously and stored in station memory as a series of 2 second averages. The reported wind direction is the average scalar direction over the 1 minute logging interval. The gust direction is the average scalar direction for the 2 second record corresponding to the gust value.
Temperature	0.45° F 0.25° C	0.1° F 0.1° C	-40° to 140° F -40° to 60° C	Temperature is measured once per minute. High and low temperatures are based on the 1-minute readings.
Relative Humidity (typical)	1.5% between 0 - 80%	1%	0 to 100%	See fig T for accuracy tolerance over the RH range. Humidity is measured once per minute. High and low RH are based on the 1-minute readings.
Absolute Pressure	1.5 mbar/hPa 0.044 inHg 1.1 mmHg	0.1 mbar/hPa 0.01 inHg 0.1 mmHg	600 to 1100 mbar/hPa 17.72 to 32.48 inHg 450.0 to 825.1 mmHg	Pressure is measured once per minute. High and low pressures are based on the 1-minute readings.
Rain Rate	5% at 2"/hr (5% upgradeable to 2%)	0.01 in/hr 0.1 mm/hr	0 to 7.8 in/hr	Rainfall is measured continuously in 0.2 mm increments (tipping bucket calibration volume)

SYSTEM

Operating Environment Temperature:	-40° to 140° F (-40° - 60°C)
Altitude Operating Range:	Sea level to 10,000m / 33,000 ft
Pollution Degree of the Intended Environment:	2
Dimensions:	11"x23"x36" (28 x 58 x 91 cm)
Weight:	8.9 lbs (4.04 kg)
Certifications:	FCC, CE, IC
Data Cache Capacity:	365 Days
Logging Rate:	Every 1 minute (See sensor specification notes for details)*
Wi-Fi Transmission Rate:	Every 1 minute
AWN Data Storage Rate:	Every 5 min (standard free plan)
Battery Type:	UB445 non-spillable 4V 4.5Ah AGM sealed lead-acid 1A peak, 12 mA typical
Battery Life:	2 to 5 years typical
Solar Panel Type:	Monocrystalline 7V 2.3 W
Warranty	2 years

OPTIONAL SENSORS

Pyranometer	Range: 0 to 1750 W/m ² Accuracy: +/-5% Cosine Response 45°: +/-1% Cosine Response 75°: +/-5% Operational Temperature: -25° to 55°C (-13° to 131°F) Resolution: 1 W/m ²
Leaf Wetness	Sensor type: gold-plated capacitive grid Output: binary wet/dry
Soil Temperature	Accuracy: +/- 0.2° C
Soil Moisture	Watermark

