



# KestrelMet® 6000 Cellular Specifications

SENSORS	Accuracy (+/-)	Resolution	Range	Notes
Wind Speed	larger of 5% or 1 mph between 1 to 57 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 15 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 15 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. The reported temperature is the average value for the 15 minute logging interval. 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. The reported humidity is the average value for the 15 minute logging interval. 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. The reported pressure is the average value for the logging interval. 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)
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 15 minutes (See sensor specification notes for details)
Cellular Transmission Rate:	Every 15 minutes
AWN Data Storage Rate:	Every 15 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
Cellular Modem Type:	CAT-M / NB-IoT
Solar Panel Type:	Monocrystalline 7V 2.3 W
Warranty	2 Years

## OPTIONAL SENSORS

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

