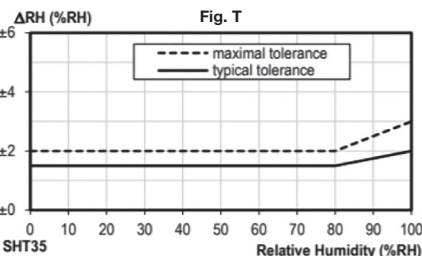


# KestrelMet® 6000 Specification Sheet

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 64.8 m/s 1 to 126 knots 1 to 233.3 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.
Barometric and 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)

## OPTIONAL SENSORS

Pyranometer	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>
Leaf Wetness	Sensor type: gold-plated capacitive grid Output: binary wet/dry
Soil Temperature	Accuracy: +/- 0.2° C
Soil Moisture	Watermark



## SYSTEM

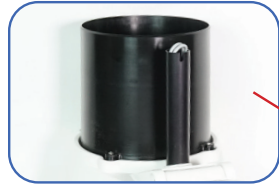
Temperature	-40° to 140° F (-40° ~ 60°C)
Dimensions	11"x23"x36" (28 x 58 x 91 cm)
Weight	8.9 lbs (4.04 kg)
Certifications	FCC, CE, IC
Data Cache Capacity	365 Days
Battery Type	Non-Spillable 4V 4.5Ah AGM sealed lead-acid 1A peak, 12 mA typical
Battery Life	2 to 5 Years typical
Cell Modem Type	CAT-M / NB-IoT
Cellular Logging Rate	Every 15 minutes (See sensor specification notes for details)
Cellular Transmission Rate	Every 15 minutes
Wi-Fi Transmission Rate	1 minute
Wi-Fi Logging Rate	1 minute
Wi-Fi Range	Up to 1000 feet line of sight
Wi-Fi Frequency	2.4 MHz
Solar Panel Type	mono crystalline 7V 2.3 W
Warranty	2 Years



# KestrelMet 6000 Weather Station Features



Vane Anemometer



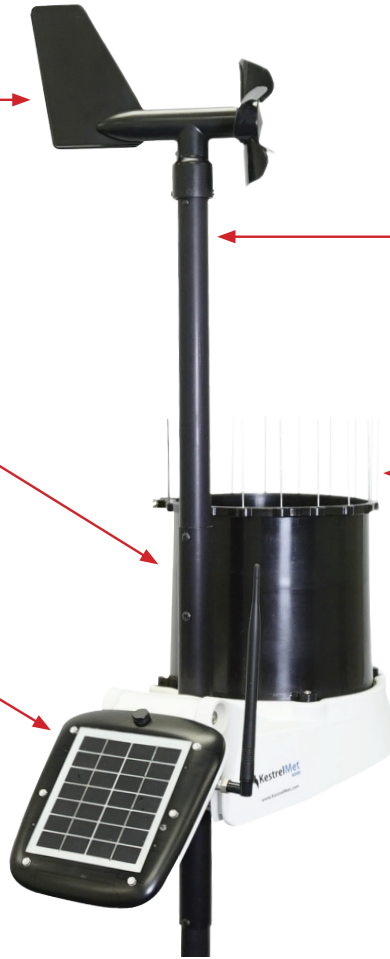
Rain Gauge



PV Power Panel



24-Hour Fan  
& Radiation Shield



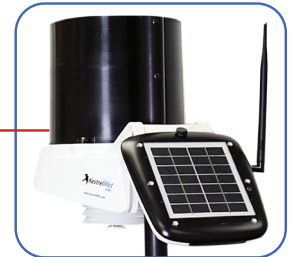
All key weather sensors mount on one sturdy platform with a simple single-mast attachment



Anemometer Mast Extension



Bird Guard



Station Base arrives pre-configured for quick and easy installation

## Additional Agriculture Sensors Available



### Solar Irradiance

Solar irradiance is an important parameter for many IPM models and can also be used to monitor shade requirements for specialty crops.



### Leaf Wetness

The KestrelMet Leaf Wetness Sensor Kit is used to monitor surface moisture on foliage, an important parameter for many IPM models.



### Soil Sensor Array

Soil Moisture & Soil Temperature probes measure conditions at three different depths for most accurate readings throughout the active root zone.

## Multiple Mounting Options



### Steel Tripod Kit

The 3-foot galvanized steel tripod provides a solid mount for the KestrelMet 6000 Cellular Weather Station. Install on flat terrain, a flat roof, or on the ridge of a pitched roof.



### Mono Mount Kit

Constructed from powder-coated steel and installs quickly and easily, mounts on a pole, a pitched or flat roof, or a vertical surface such as a gable end of a building.