

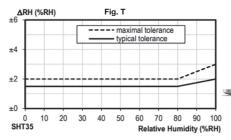
## **KestrelMet® 6000 Wi-Fi Specifications**

| SENSORS                        | Accuracy (+/-)                                   | Resolution                                 | Range   | Notes  |
|--------------------------------|--|--|---|--|
| Wind Speed                     | larger of 5%<br>or 1 mph between 1 to<br>145 mph | 0.1 mph<br>0.1 knot<br>0.1m/s<br>0.1 km/hr | 1 to 145 mph<br>1 to 126 knots<br>1 to 64.8 m/s<br>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<br>0.25° C                               | 0.1° F<br>0.1° C                           | -40° to 140° F<br>-40° to 60° C                                     | Temperature is measured once per minute.<br>High and low temperatures are based on<br>the 1-minute readings.   |
| Relative Humidity<br>(typical) | 1.5% between<br>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<br>0.044 inHg<br>1.1 mmHg           | 0.1 mbar/hPa<br>0.01 inHg<br>0.1 mmHg      | 600 to 1100 mbar/hPa<br>17.72 to 32.48 inHg<br>450.0 to 825.1 mmHg  | Pressure is measured once per minute.<br>High and low pressures are based on the<br>1-minute readings.   |
| Rain Rate                      | 5% at 2"/hr<br>(5% upgradeable<br>to 2%)         | 0.01 in/hr<br>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<br>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<br>AGM sealed lead-acid 1A peak,<br>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/m² Accuracy: +/-5% Cosine Response 45°: +/-1% Cosine Response 75°: +/-5% Operational Temperature: -25° to 55°C (-13° to 131°F) Resolution: 1 W/m² |  |  |
| Leaf Wetness     | Sensor type: gold-plated capacitive grid<br>Output: binary wet/dry   |  |  |
| Soil Temperature | Accuracy: +/- 0.2° C   |  |  |
| Soil Moisture    | Watermark  |  |  |





\*KestrelMet



