

# Kestrel® 3000

## Pocket Weather Meter

### Measures

- Current Wind Speed
- Maximum Wind Gust
- Average Wind Speed
- Air, Water & Snow Temperature
- Wind Chill
- Relative Humidity
- Heat Stress Index
- Dewpoint

### Know Your Conditions

- Measure environmental conditions quickly and accurately
- Reliable, portable and easy to use

### Quality by Design

- All instruments and accessories are completely assembled in the USA
- Innovative design for stability and accuracy in abrupt condition changes
- Patented user-replaceable impeller
- Quick response, external thermistor
- Thermally adjusted humidity sensor

### Features

- Protective cover with sure-grip overmolding
- Data hold function
- Large easy-to-read display with backlight
- Waterproof and floats
- Lanyard and battery included
- Two-year warranty



# Specifications

Measurement	Units of Measure	Accuracy	Range
Current, Max and Avg Wind Speed	m/s, km/hr, mph, fpm, kts, Beaufort Force	±3% of reading or ±0.1 m/s	0.3 to 40 m/s (0.7 to 89 mph)
Temperature, Wind Chill, Heat Stress, Dewpoint	°C, °F	±1°C (±2°F)	-29 to 70°C (-20 to 158°F)
Relative Humidity	%	± 3% or scale	5 to 95%

---

Display Update	1 second		
Display Size	Reflective 3 1/2 digit LCD, 9 mm (0.36 in.) digit height		
Off-Axis Wind Speed Accuracy	-1% @ 5° off-axis; -2% @ 10°; -3% @ 15°		
Calibration Drift	< 2% after 100 hours use at 7 M/S (~14 KT, 25 KM/H, 16 MPH or 1,400 FPM)		
Environmental Sealing	Electronics enclosure IP67 - water resistant to 1 m. (3 ft.)		
Shock Resistance	Drop tested to 2 m. (6 ft.)		
Auto Shutdown	45 minutes after last key press		
Battery	User-replaceable CR2032 coin cell; typical life, 400 hrs		
Impeller	25 mm (1 in.) diameter, sapphire bearings, light weight; user-replaceable without tools		
Temperature Sensor	Hermetically sealed precision thermistor		
Humidity Sensor	Silicon based capacitive sensor		
Dimensions	unit: 122 x 42 x 20 mm (4.8 x 1.7 x 0.8 in.) cover: 122 x 46 x 26 mm (4.6 x 1.8 x 1.1 in.)		
Weight	unit: 2.3oz (65gr) cover: 1.3oz (37gr)		
Operating Temperature	LCD readability is lost above 50°C (122°F) and below -15°C (5°F). Accurate readings may be taken beyond these temperature limits by exposing the unit for the minimum time necessary to take and record measurement.		
Storage Temperature	Recommended -20°C to 80°C (-4°F to 176°F)		
Temperature Limitations	The Kestrel temperature sensor is able to measure temperatures as low as -30C (-22F) and as high as 70C (158F). The Kestrel is able to display wind chill measurements lower than -30C, depending on wind conditions. It is also able to display heat index measurements above 70C, depending on humidity conditions. The Kestrel display will not function if the display itself gets below -15C. However, if the unit is kept in a pack or pocket or other warm area, the display itself should not get this cold.		
Patents	5,783,753; 5,939,645; Other patents pending.		
Certification	Wind speed, temperature and humidity measurements are tested at the factory before packaging. Factory certification is available for additional fee.		
Warranty	Product is CE certified. Standard 2-year warranty covers parts and labor.		