



New for the fall of 2004, the Kestrel 3500 measures every environmental condition simply with the press of a button!

#### Measures

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

#### Know Your Conditions

- Measure environmental conditions quickly and accurately
- Forecast weather with pressure trend indicator
- Reliable, portable and easy to use

#### Quality by Design

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

#### Features

- Real-time clock
- 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%
Pressure	hPa, inHg	± 3 hPa	870.0 to 1080.0 hPa (25.70 to 31.90 inHg)
Altitude	feet, meters	± 30 meters (at standard atmospheric conditions)	-500 to 9000 meters (-1500 to 30000 feet)

---

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
Pressure Sensor	Monolithic Silicon Piezoresistive 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.