

# KESTREL<sup>®</sup> 2000 Pocket Thermal Wind<sup>®</sup> Meter



**Suggested Retail**  
**\$119.00 us**

Call Blue Sky Avionics  
605•977•3608  
For the best price!

The NK *Kestrel* 2000 Thermo-Anemometer is a pocket-sized precision instrument for measuring wind speed, temperature and wind chill. The large liquid crystal display is clear and easy to read under almost any condition. The *Kestrel* 2000 can track maximum and average wind speeds along with current readings, and can display wind speed in your choice of knots, meters per second, kilometers per hour, miles per hour, feet per minute or Beaufort scale. Temperature and wind chill can be displayed in °C or °F. Measuring modes and display units can be changed at any time. The *Kestrel* 2000 relies upon a precision ultralight impeller mounted on jewel bearings to measure wind speed. This provides the ability to measure the slightest breeze, 0.3 M/S. It is protected in a reinforced fiberglass housing, and can be replaced easily and affordably should it become damaged or worn. For temperature readings, the *Kestrel* 2000 uses a fast-responding thermistor. Wind chill is calculated from wind and temperature data using the U.S. National Weather Service's official tables. The *Kestrel* 2000 is waterproof and floats and comes with a convenient neck lanyard. The battery is easy to replace and provides 400 hours of use. The protective case prevents damage to the unit. Performance is guaranteed for one full year.

## Performance Specifications

**On-axis Accuracy:** +/-3% of reading or +/-least significant digit, whichever is greater.

**Off-axis Response:** -1% @ 5 °, -2% @ 10 °, -3% @ 15 °.

**Calibration Drift:** <2% after 100 hours operation at 7 M/S

**Minimum Speed:** 0.3 M/S (~0.6 KT, 1KM/H, 0.7 MPH, 60 FPM).

**Maximum Speed:** 40 M/S (~78 KT, 144 KM/H, 89 MPH, 7830 FPM). Extensive operation at or near maximum speed may result in impeller bearing wear and reduced accuracy.

## Display Specifications

**Operating Modes:** Moving 3-second wind speed, average (AVG) and gust (MAX) since power on, temperature, and wind chill.

**Type:** Reflective LCD, 9 mm (0.36 in.) digit height.

**Update:** 1 second.

**Accuracy:** +/-1°C.

**Resolution:** +/-0.1°C temperature, +/-0.1°C wind chill.

## Operation Specifications

**Buttons:** Two sealed tactile rubber buttons control all functions.

**Auto Shutdown:** 30 minutes after last key press.

**Battery:** User-replaceable CR2032 coin cell. 400 Hours, typical life.

## Environmental Specifications

**Sealing:** Electronics enclosure IP67 - water resistant to 1meter (3feet). Unit floats.

**Shock:** Drop tested to 2meters (6feet).

**Temperature:** Operating range, -15 °C to 50 °C (5 °F to 122 °F). Storage range, -20 °C to 80 °C (-4 °F to 176 °F).

## Physical Specifications

**Impeller:** Diameter 25mm (1in.). High precision, jewel bearings. User replaceable impeller assembly.

**Temperature Sensor:** Hermetically sealed thermistor.

**Case:** Slip-on hard case protects display, buttons and impeller.

**Dimensions:** Unit, 122x42x14 mm (4.8x1.7x0.6 in.); case, 117x46x19 mm (4.6x1.8x0.7 in.); lanyard, 0.5 m (10 in.).

**Weight:** Unit, 43 grams (1.5 ounces); case, 23 grams (0.8 ounces).

## 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. Furthermore, the Kestrel display will not function if the display itself gets below -15C. Do not to leave the Kestrel outside in temperatures below -15C.