

KESTREL[®] 3000 Pocket Weather Meter



Suggested Retail
\$179.00 us

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For the best price!

The *Kestrel* 3000 is the ONLY hand-held instrument for measuring wind speed, temperature, wind chill, relative humidity, heat index, and dew point temperature. The measuring modes and display can be changed easily and at any time. It is pocket-sized and easy-to-use with a large liquid crystal display that is easy to read, even in low light. The *Kestrel* 3000 measures wind speed with a large-diameter precision ultralight impeller, which turns on sapphire bearings. The impeller and protective housing pop out without tools for easy and inexpensive replacement. The *Kestrel* 3000 uses an external thermistor for fast response and accuracy to +/- 1.0°C. The capacitive humidity sensor is factory calibrated to +/- 3% accuracy and can be recalibrated in the field with our Relative Humidity Calibration Kit. A hard slip-on case protects the *Kestrel* 3000 display, buttons and impeller from damage. The *Kestrel* 3000 is covered by a full one-year warranty.

Performance Specifications

On-Axis Accuracy: greater of +/- 3% or +/- least significant digit.

Off-Axis Response: -1% @ 5°, -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).

Minimum - Maximum Speed: 0.3 M/S (~0.6 KT, 1 KM/H, 0.7 MPH or 60 FPM) to 40 M/S (~78 KT, 144 KM/H, 89 MPH or 7,830 FPM).

Display Specifications

Operating Modes: Wind speed with maximum (MAX) and average (AVG). Temperature; wind chill; relative humidity; heat index; dew point temperature.

Display: Reflective 3 1/2 digit LCD, 9 mm (0.36 in.) digit height.

Update: 1 second.

Units: Knots (KT), meters per second (M/S), kilometers per hour (KM/H), miles per hour (MPH), feet per minute (FPM) and Beaufort force (B), °C or °F.

Resolution and Range: KT, M/S, KM/H or MPH: resolution 0.1; display range 199.9. FPM resolution; 1.0 < 1,999, 10 > 2,000, display range 19,990.

Accuracy: Temp and wind chill, +/- 1.0°C; RH +/- 3%; dew point temp, +/-2°C; heat index, +/-3°C. Humidity sensor can be recalibrated in the field.

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 1 m. (3 ft.). Floats.

Shock: Drop tested to 2 m. (6 ft.).

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 precision thermistor.

Humidity Sensor: Silicon based capacitive sensor.

Case: Slip-on hard case.

Dimensions: 122x42 x14 mm (4.8x1.7x0.6 in.); case, 117x46x19 mm (4.6x1.8x0.7 in.); lanyard, 0.5 m. (10 in.).

Weight: Unit, 44 g. (1.6 oz.); case, 23 g. (0.8 oz.).

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.