Kestrel® 3000
Pocket Weather Instrument



- ✓ The Kestrel 3000 is the ONLY hand-held instrument for measuring wind speed, temperature, wind chill, relative humidity, heat index and dew point temperature.
- ✓ Pocket-sized and easy-to-use.
- ✓ Measuring modes and display units can be changed at any time.
- ✓ The large liquid crystal display 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 uses an external thermistor for fast response and accuracy to ±1.0ºC.
- ✓ The capacitive humidity sensor is factory calibrated to ± 3% accuracy and can be recalibrated in the field.
- ✓ 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 and is also protected by US patent No. 5,753,784.

Features and Specifications:

Wind

Operating Modes: Moving 3-second average, maximum 3-second gust since power on (MAX), or average since power on (AVG).
Display 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).
On-Axis Accuracy: Greater of ±3% or ± least significant digit.
Off-Axis Response: -1% at 5º, -2% at 10º, -3% at 15º.
Resolution and Range: KT, M/S, KM/H or MPH: resolution 0.1; max display range 199.9.
FPM: Resolution1.0 below 1,999, 10 above 2,000 (auto-ranging); max display range 19,990.
Calibration Drift: < 2% after 100 hours use at 7 M/S (~14 KT, 25 KM/H or 16 MPH).
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).

Temperature & Humidity

Operating Modes: Temperature; wind chill; relative humidity; heat index; dew point temperature.
Units: Degrees Centigrade (ºC) or degrees Fahrenheit (ºF).
Accuracy: Temperature and wind chill, ±1.0ºC; relative humidity ±3%; dew point temperature, ±2ºC; heat index, ±3ºC. Humidity sensor can be re-calibrated in the field.
Temperature/Wind Chill Display Update: 1 second.
Humidity Sensor Response Time: 1 minute.
Resolution: 0.1.

Instrument

Environmental Sealing: Electronics enclosure IP67 - water resistant to 1 m. Floats.
Shock: Drop tested to 2 m.
Operating Temperature: LCD readability is lost above 50ºC and below -15ºC. 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 -20ºC to 80ºC.
Physical Buttons: Two sealed tactile rubber buttons control all functions.
Auto Shutdown: 30 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.
Display: Reflective 3 1/2 digit LCD, 9 mm digit height.
Case: Slip-on hard case.
Dimensions: 122 x 42 x 14 mm; case, 117 x 46 x 19 mm; lanyard, 0.5 m.
Weight: Unit, 44 g.; case, 23 g.

Kestrel® Wind/Weather Instruments

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