

## Kestrel® 3000 Pocket Weather Meter

- 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 +/- 1.0°C.
- The capacitive humidity sensor is factory calibrated to +/- 3% accuracy and can be recalibrated in the field with our [Kestrel 3000 RH 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 and is also protected by US patent No. 5.753.784.



*Shown at right is the Kestrel 3000 with cover and an optional extra removable impeller*



**Features and Specifications:**

**Operating Modes:** Moving 3-second average (M), 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% @ 5°, -2% @ 10°, -3% @ 15°.

**Resolution and Range:** KT, M/S, KM/H or MPH: resolution 0.1; max display range 199.9.

**FPM:** resolution 1.0 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, 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).

**Operating Modes:** Temperature; wind chill; relative humidity; heat index; dew point temperature.

**Units:** Degrees Centigrade (°C) or degrees Fahrenheit (°F).

**Accuracy:** Temperature and wind chill, +/- 1.0°C; relative humidity +/- 3%; dew point temperature, +/- 2°C; heat index, +/- 3°C. Humidity sensor can be recalibrated in the field.

**Temperature/Wind Chill Display Update:** 1 second.

**Humidity Sensor Response Time:** 1 minute.

**Resolution:** 0.1.

**Environmental Sealing:** Electronics enclosure IP67 - water resistant to 1 m. (3 ft.). Floats.

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

**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).

**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 (0.36 in.) digit height.

**Case:** Slip-on hard case.

**Dimensions:** 122 x 42 x 14 mm (4.8 x 1.7 x 0.6 in.); case, 117 x 46 x 19 mm (4.6 x 1.8 x 0.7 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 sensor and electronics simply won't measure beyond this range. 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. However, if the unit is kept in a pack or pocket or other warm area, the display itself should not get this cold. In other words, try not to leave the Kestrel outside in temperatures below -15C.

**Distributed in Canada by:**

**QPC Instruments Inc.**