



 **Kestrel[®]**
3000

Pocket Weather Meter

Wind Speed

Temperature

Wind Chill

Dew Point

Humidity

Heat Stress

Easy to use lightweight
instrument for fast and
accurate readings of ALL
key weather conditions.
PATENTED!

Actual Size



Kestrel[®] 3000 Pocket Weather Meter

The Kestrel 3000 Pocket Weather Meter 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, the Kestrel allows you to take fast, accurate reading of the environmental conditions whenever and wherever you are.

- Wind speed readings in knots, meters per second, kilometers per hour, miles per hour, feet per minute, Beaufort force
- Wind Speed accuracy $\pm 3\%$
- Very low startup speed, 0.3 M/S
- External temperature and humidity sensors for fast and accurate response
- Temperature readings in $^{\circ}\text{C}$ and $^{\circ}\text{F}$
- Temperature and dew point accuracy $\pm 1^{\circ}\text{C}$
- Humidity accuracy $\pm 3\%$
- Impeller can be replaced without tools
- Includes slip-on hard cover, adjustable lanyard, and battery
- Waterproof
- Floats
- 1-Year Warranty
- Assembled in the USA
- US Patent No. 5,753,783

Patented replaceable impeller ensures lifetime accuracy. Slip-on case protects the unit.

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Hand-held, accurate and easy to use

Pacific Data Systems Pty Ltd

PO Box 324
Salisbury QLD 4107
TELEPHONE: (+617) 3275 2999
FAX: (+617) 3275 2244
WEB: www.pacdatasys.com.au
E-MAIL: sales@pacdatasys.com.au

SPECIFICATIONS

Wind Speed

Operating Modes: Moving 3-sec. average (☼), maximum 3-sec. 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 $\pm 3\%$ or \pm 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 Speed: 0.3 M/S (~0.6 KT, 1 KM/H, 0.7 MPH or 60 FPM).

Maximum Speed: 40 M/S (~78 KT, 144 KM/H, 89 MPH, or 7,830 FPM).

Temperature, Wind Chill, Humidity, Heat Index and Dew Point

Operating Modes: Temperature (☼); wind chill (☼☼); relative humidity (☼☼); heat index (☼☼☼); dewpoint (☼).

Units: Degrees Centigrade ($^{\circ}\text{C}$), degrees Fahrenheit ($^{\circ}\text{F}$), percent (%).

Accuracy and Resolution: Temperature and wind chill, $\pm 1.0^{\circ}\text{C}$; relative

humidity $\pm 3\%$ between 5% and 95% relative humidity; dew point temperature, $\pm 2^{\circ}\text{C}$; heat index, $\pm 3^{\circ}\text{C}$.

Resolution: 0.1 Humidity sensor can be recalibrated in the field.

Temperature/Wind Chill Display Update: 1 second. Humidity Sensor Response Time: 1 minute.

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 60°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 (less than one minute).

Storage Temperature: Recommended -40°C to 60°C (-40°F to 140°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 250 hours.

Impeller: 25 mm (1in.) 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, 9mm (0.36 in.) digit height.

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, 4.8 m. (56 in.).

Weight: Unit, 43 g. (1.5 oz.); case 23 g. (0.8 oz.).