



The NK *Kestrel* 1000 Pocket Wind Meter is very accurate, very tough and very affordable.

- You can carry it in a pocket, hold it in one hand, and use it whenever and wherever you need to know wind speed.
- It features a large liquid crystal display which is easy to read under almost any conditions and offers three operating modes - wind speed, average wind speed, and maximum wind speed.
- The display units can be changed at any time, with choices to suit a wide variety of applications (knots, meters per second, kilometers per hour, miles per hour or feet per minute, Beaufort).
- To measure wind speed, the *Kestrel* relies on a precision ultralight impeller mounted in jewel bearings.
- This impeller yields high accuracy ($\pm 3\%$) and a low startup speed (0.3 M/S).
- It is shock-mounted in a glass-reinforced plastic housing which can simply be popped out and replaced with a new assembly in the event that the impeller mechanism becomes worn or damaged.
- The *Kestrel* is waterproof and floats.
- The hard case slips on and off easily and protects the display and all moving parts from damage.
- Performance is guaranteed for one full year.
- [US Patent](#) No. 5,783,753

Shown at right is the Kestrel 1000 with cover and extra removable impeller

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). Some loss of accuracy from bearing wear may occur with sustained operation over 25 M/S.

Display Specifications

Operating Modes: Moving three second average (wind speed), average since power on (AV) or maximum three second gust since power turned on (MAX).

Type: Reflective LCD.

Digit Height: 10 mm (0.4 in.).

Update: 1 second.

Range: 0.0 to 19.9, 20 to 199.

Units: Knots (KT), meters per second (M/S), kilometers per hour (KM/H), miles per hour (MPH) or feet per minute (FPM).

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. Typical life, 400 hours.

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.

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

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

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para honra e glória de **IXΘΥΣ**