

**WIND SPEED • MAXIMUM WIND SPEED • AVERAGE WIND SPEED**

**Know your conditions**

Measure environmental conditions quickly and accurately  
 Wide range of wind speeds and a low start-up speed  
 Reliable, portable and easy to use



- Small, robust design**
- Data hold function**
- Large easy to read display**
- Waterproof and floats**
- High precision Zytel® mounted impeller**
- Replaceable impeller assembly**
- Long life lithium battery**
- Low cost**
- Includes protective cover, lanyard and battery**
- 5 year warranty**
- Choice of measurement units: Knots, Metres per second, Kilometres per hour, Miles per hour, Feet per minute and Beaufort Force**



<b>Measurement</b>	<b>Units of Measure</b>	<b>Accuracy</b>	<b>Range</b>
Current, Max and Average Wind speed	knots, m/s, km/h, mph, ft/min, Beaufort (B)	±3% of reading or ±0.1 m/s	0.6 to 40 m/s

**DESCRIPTION**

The Kestrel 1000 pocket anemometer is the first and entry level of the Kestrel range, providing the user with accurate wind speed readings. It has three buttons below the display, making operation simple and allowing the user to view data in current, maximum or average displays, the buttons also allow operation of the data hold function.

The Kestrel 1000 is a small electronic rotating vane type anemometer, easily carried in a pocket. It uses high precision Zytel® bearings and a light weight impeller to provide accurate air flow measurements even at low speeds. The impeller assembly can be replaced by the user if damaged.

Low power microprocessor technology is used to provide speed, maximum speed, average speed and units selection; functions normally only found on more expensive instruments. The liquid crystal display has large 9mm high digits for a clear readout.

Power is from an easily replaceable standard lithium coin cell battery, which will typically give up to 300 hours of operation. The instrument automatically switches off if no keys are pressed for 45 minutes.

The Kestrel 1000 is made from high impact injection moulded plastic and corrosion resistant materials with the electronics fully sealed. It will float if accidentally dropped into water. There is a hard cover for protection when not in use and a lanyard is provided for added security.

All Kestrels have a 5 year warranty.

**APPLICATIONS**

- Agriculture** checking conditions prior to crop spraying or burning
- Aviation** gliders, para-gliders, micro-lights, parachutists and ballooning
- Construction** site safety, working conditions, working at height in cranes or access vehicles
- Education** air flow experiments, environmental studies, outdoor sports
- Heating and ventilation** air flow through fans, checking condition of filters
- Industry** air flow measurements, pollution control
- Science** aerodynamics, environmental science and meteorology
- Fire fighters** checking fire spreading hazard
- ALL** - sailors, walkers, model boats/air craft, kite flyers, archery, shooting, fishing, golf & athletics

**SPECIFICATION**

<b>Physical</b>	Dimensions	122mm x 42mm x 20mm	
	Cover dimensions	122mm x 46mm x 26mm	
	Weight	65g	
	Cover weight	37g	
	Lanyard	0.5m	
	Case colour	Blue	
<b>Display</b>	Display type	Reflective 3½ digit LCD.	
	Digit height	9mm	
	Display update	1 second	
	Functions	Current wind speed (3 second average)	
		Average speed since power on (AVG)	
Maximum 3 second gust since power on (MAX)			
Data hold (HOLD)			
Speed units	kt, m/s, km/h, mph, ft/min, Beaufort Force (B)		
<b>Performance</b>	Speed (1 sec response)	Operational range	0.6m/s to 60m/s (1.3 to 135.0mph)
		Specification range	0.6m/s to 40m/s (1.3 to 89.0mph) Start-up speed stated as lower limit, readings may be taken down to 0.4 m/s   79 ft/min   1.5 km/h   .9 mph   .8 kt after impeller start-up.
		On axis accuracy	Larger of ± 3% of reading or least significant digit or 20ft/min. (Some loss of accuracy from bearing wear may occur with sustained operation at or near maximum speed)
		Off-axis response	-1% @ 5°, -2% @ 10°, -3% at 15°
		Calibration drift	<1% after 100hrs operation at 7m/s
		Resolution	0.1 kt, m/s, km/h, mph. 1 FPM below 1999 FPM, 10 FPM above 2000 FPM. 1 Beaufort (0 to 12)
<b>Sensor</b>	Impeller	Diameter 25mm. High precision axle and low-friction Zytel® bearings. Replacement impeller field installs without tools.	
	Sealing	Electronics enclosure IP67 [Water resistant] and NEMA-6	
<b>Environmental</b>	Shock	Drop tested (MIL.STD.810F - unit only)	
	Temperature	Operating range: -10°C to +55°C (for LCD readability and batteries) Storage range: -30°C to +60°C	
	EMC	CE marked	
	Battery	Lithium coin cell CR2032, included, user replaceable	
<b>Miscellaneous</b>	Battery Life	300 hours of use, typical	
	Auto switch off	45 minutes after last key press	
	Cover	Snap on hard cover for protection	
	Certification	Wind speed measurements are tested during manufacture. A certificate of conformity (C of C) is included with each Kestrel. A calibration certificate is available for an additional fee.	
	Guarantee	5 years	

The manufacturer reserves the right to amend the specification and therefore the information in this document may be subject to change.

