

## 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 jewel mounted impeller
- Replaceable impeller
- Long life lithium battery
- Low cost
- Includes protective cover, lanyard and battery
- Two year warranty
- Choice of measurement units: Knots, Metres per second, Kilometres per hour, Miles per hour, Feet per minute and Beaufort Force



#### Measurement

Current, Max and Average  
Wind speed

#### Units of Measure

kt, m/s, km/h, mph, ft/min, B

#### Accuracy

±3% of reading  
or ±0.1 m/s

#### Range

0.3 to 40 m/s

### DESCRIPTION

The original Kestrel Weather Meters have been redesigned to provide even better quality, performance and functionality. Three buttons on the front of the instrument mean operation is extremely simple and allow the selection of current, maximum and average displays and also data hold.

The Kestrel 1000 Pocket Anemometer is a small electronic rotating vane type of anemometer that can be easily carried in a pocket. It uses high precision jewel bearings and a light weight impeller to provide accurate air flow measurements even at low speeds. The impeller assembly is replaceable by the user in the case of damage.

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 type cell, which will typically give up to 400 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.

### 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, out door 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

### Performance

Speed range:	0.3m/s to 40m/s (0.7 to 89mph)
On axis accuracy:	± 3% of reading or ± least significant digit
Off -axis response:	-1% @ 5°, -2% @ 10°, -3% at 15°
Calibration drift:	<2% after 100hrs operation at 7m/s

Some loss of accuracy from bearing wear may occur with sustained operation at or near maximum speed

### Display

Operating Modes:	Current speed (3 second average) Average speed since power on (AVG) Maximum 3 second gust since power on (MAX) Data hold (HOLD)
Display update:	1 second
Units:	kt, m/s, km/h, mph, ft/min, Beaufort Force (B)
Type:	Reflective LCD
Digit height:	9mm

### Physical

Dimensions:	122mm x 42mm x 20mm
Cover Dimensions:	122mm x 46mm x 26mm
Weight:	65g
Cover weight:	37g

### Environmental

Sealing:	Electronics enclosure IP67 [Water resistant to 1m of water], floats.
Shock:	Drop tested to 2m
Temperature:	Operating range -15° C to 50° C (LCD readability lost) Storage range -20° C to 80° C
EMC:	CE marked

### Miscellaneous

Battery:	Lithium coin cell CR2032, user replaceable.
Battery Life:	400 hours operation, typical
Auto switch off:	45 minutes after last key press
Impeller:	Diameter 25mm High precision jewel bearings User replaceable impeller assembly
Case colour:	Blue
Cover:	Snap on hard cover for protection
Lanyard:	0.5m
Guarantee:	12 months, parts and labour. Second year of warranty after registration
Certification:	Wind speed measurements are tested during manufacture. Factory Certification is available for an additional fee

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

Richard Paul Russell Limited  
New Harbour Building, Bath Road, Lymington,  
SO41 3SE, United Kingdom  
Tel: +44 (0) 1590 679755  
Fax: +44 (0) 1590 688577  
e-mail: [sales@r-p-r.co.uk](mailto:sales@r-p-r.co.uk)  
web: <http://www.r-p-r.co.uk>