

Kestrel 4000

The Kestrel® Tracker is the next generation of weather monitoring. You can now measure EVERY major environmental condition, easily and accurately, right in the palm of your hand. The chart mode allows users to recall and graph up to 480 measurements, along with the date and time of storage. Barometric Pressure, Altitude, Density Altitude, Temperature, Humidity, Wind Speed, Wind Chill, Dew Point, Wet Bulb, and Heat Index... all in one pocket sized instrument.

- Graph and recall trends
- Easy to read, backlit display
- Time and date
- Customize screens to display user-selected measurements
- Hard cover allows use of other functions while protecting the impeller
- Automatically store measurements, even when the unit is turned off
- Manually store measurements with the press of a button
- Chart up to **480** measurements (up to 240 days)
- Store rate selectable to 2/5/10/20/30sec, 1/2/5/10/20/30 min, 1/2/5/12/hour
- Impeller can be replaced without tools
- Exterior temperature, humidity, and pressure sensors for fast and accurate readings
- Includes neck and wrist lanyards, protective pouch and 2 AAA batteries
- Waterproof and floats
- 2-year warranty
- Assembled in the USA
- US Patent Nos. 5,783,753 and 5,939,645 and 6,257,074



Features and Specifications

Wind Speed

Accuracy	±3%
Response Time	1 second
Calibration Drift	<2% after 100 hours use at 7m/s

Units	Display	Res'n	Range
Knots	KTS	0.1	0.6 to 78
Meters per Second	M/S	0.1	0.3 to 40
Kilometers per Hour	KM/H	0.1	1.0 to 144
Miles per Hour	MPH	0.1	0.7 to 89
Feet per Minute	FPM	1	59 to 7877

Beaufort Force	BEAU	1	1 to 16
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Temperature

Accuracy

Temperature $\pm 1^{\circ}\text{C}$

Wind Chill $\pm 1^{\circ}\text{C}$

Dew Point $\pm 2^{\circ}\text{C}$

Heat Index $\pm 3^{\circ}\text{C}$

Response Time approximately 1 minute for most conditions

Units	Display	Res'n	Range
Celsius	$^{\circ}\text{C}$	0.1	-29 to 70
Fahrenheit	$^{\circ}\text{F}$	0.1	-20 to 158

Relative Humidity

Accuracy $\pm 3\%$

Response Time approximately 1 minute for most conditions

Calibration Drift $\pm 2\%$ over 24 months ([can be field calibrated](#))

Units	Display	Res'n	Range
Percent	%	0.1	5 to 95%

Barometric Pressure

Accuracy $\pm 3\text{hPa}$ (between -10°C and 60°C)

Calibration Drift $\pm 1\text{hPa}$ over 12 months ([can be field calibrated](#))

Units	Display	Res'n	Range
hectoPascal (mb)	hPa	0.1	870.0 to 1080.0
Inches Mercury	inHg	0.01	25.70 to 31.90

Altitude, Density Altitude

Units	Display	Res'n	Range
Meters	M	1	-500 to 9000
Feet	FT	3	-1600 to 30000

Display

Update	1 second
Temperature Range	Normal operation from -20°C to 60°C [-4°F to 140°F]. Below -20°C [-4°F], accurate readings may be taken by keeping the unit warmer than -20°C [-4°F] and exposing it for the minimum time necessary to take a reading (less than 1 minute).
Storage Temperature	-30°C to 60°C [-22°F to 140°F].
Auto Shutdown	After 15 minutes of no button presses. (This feature can be disabled.)

Physical

Battery	Two AAA alkaline batteries (included). Typical life, 400 hours.
Impeller	25 mm. [1in.] diameter, sapphire bearings, light weight. User-replaceable impeller/housing assembly.
Temperature Sensor	Hermetically sealed precision thermistor.
Humidity Sensor	Solid state silicon capacitive sensor.
Pressure Sensor	Monolithic silicon piezoresistive sensor.
Dimensions	12.7 x 4.5 x 2.8 cm. [5 x 1.8 x 1.1 in.]
Weight	102 g. [3.6 oz.]

Warranty:

Full two year conditional warranty on entire system. Factory service for life.

Customer care warranty service available.