

Kestrel 5000 Environmental Meter

The Kestrel 5000 Environmental Meter is a remarkably powerful measuring and data logging tool, yet remarkably compact. Use it for research, safety, expeditions, agriculture and any other profession or activity where accurate on-the-spot conditions monitoring is key.



Measures

- » Altitude
- » Barometric Pressure
- » Density Altitude
- » Dew Point Temperature
- » Heat Index
- » Relative Humidity
- » Station Pressure (Absolute Press.)
- » Temperature
- » Wet Bulb Temp (Psychrometric)
- » Wind Chill
- » Wind Speed

The Kestrel 5000 provides the same trusted accuracy, reliability, and usability as the preceding Kestrel 4000, but adds many new features and options.

The first thing you'll notice is the larger, higher-resolution and contrast display and improved font readability. The Kestrel 5 series also includes a built-in dual color backlight, extra-strong polycarbonate lens and AA battery operation and offers optional LiNK iOS and Android wireless connectivity and app support.

Like all Kestrel meters, the Kestrel 5000 is drop-proof, dust-proof, waterproof and able to withstand harsh environments without damage – so it can travel with you anywhere you dare to go. A range of carry pouch options makes it even easier to take your Kestrel meter with you.

In addition to measuring the current environmental conditions, the Kestrel 5000 tracks and logs over 10,000 sets of time-stamped data. Your data log can be transferred to a mobile device wirelessly, or to a PC/MAC with either the optional Kestrel LiNK Dongle or waterproof USB Data Transfer Cable.

Features & Benefits

- » Used in firefighting, agriculture, hazardous materials response, meteorology, military, law enforcement, research, education, scientific & mountaineering expeditions and more
- » Handheld, portable environmental meter with onboard data logging and graphing
- » Measures wind speed / air speed, temperature, humidity and pressure and displays over 10 total environmental parameters on large, hi-res, hi-contrast, graphic display
- » Optional LiNK connectivity powered by Bluetooth® provides wireless communication to mobile devices & computers
- » Rugged (drop tested to MIL-STD-810G standards), waterproof (sealed to IP67 standards)
- » Protective pouch, neck lanyard and Lithium AA battery included (Average Life 400 Hours)
- » Certificate of Conformity (with complete specifications)
- » 5-year warranty.

Kestrel LiNK for Windows and MAC

Simple communication to Windows and Mac computers is provided through the optional LiNK .USB Dongle or USB Data Transfer Cable. Download your data to view, analyse and archive. Enables firmware update of Kestrel 5 series meters.

Kestrel LiNK for iOS and Android

Wirelessly connect with iOS and Android devices. When in range, view real-time measurements, receive on-screen alerts and download your data. Logged data can be viewed, analysed, archived and shared via e-mail, Facebook and Twitter. Enables firmware update of Kestrel 5 series meters. NOTE: Range up to 100' (line of sight).



Optional Kestrel LiNK

Optional Vane Mount

The true versatility of the Kestrel 5000 becomes apparent with the addition of the Kestrel Vane Mount (KAU-KES-0782). This precision-engineered accessory securely mounts the Kestrel 5000 to any tripod or other 1/4-20 fitted bracket. Once mounted, the Kestrel 5000 becomes an independent monitoring station, as the large wind vane and precision pivot keep the Kestrel oriented into the wind for continuous measurement and logging of wind speed and all other key weather parameters.

Kestrels have been put to the test in some of the harshest conditions on the planet. U.S. Special Forces, combat weather teams, wildland firefighters, smoke jumpers, Mt. Everest expeditions and auto pit crews are just a few who rely on a Kestrel to provide them with the crucial environmental data they need. Watch any on-screen meteorologist during a hurricane, and you're sure to spot a Kestrel in action. Researchers have relied on Kestrel's accuracy and portability for nearly 20 years, and you'll find Kestrel referenced in many a peer-reviewed journal article. If environmental conditions are important in your profession or favorite activity, there is no better partner than a Kestrel 5000

Kestrel 5000 Specifications

Sensors			
SENSOR	ACCURACY	RESOLUTION	SPEC. RANGE
Wind Speed / Air Speed	Larger of 3% of reading, least significant digit or 20 ft/min	0.1 m/s 1 ft/min 0.1 km/h 0.1 mph 0.1 knots 1 B	0.6 to 40.0 m/s 118 to 7,874 ft/min 2.2 to 144.0 km/h 1.3 to 89.5 mph 1.2 to 77.8 knots 0 to 12 B
Ambient Temperature	0.5 °C	0.1 °C	-29.0 to 70.0 °C
Relative Humidity	3%RH	0.1 %RH	5 to 95% 25°C non-condensing
Pressure	1.5 hPa mbar 0.044 inHg 0.022 PSI	0.1 hPa mbar 0.01 inHg 0.01 PSI	25°C 750-1100 hPa mbar 22.15-32.48 inHg 10.88-15.95 PSI

Calculated Measurements			
MEASUREMENT	ACCURACY	RESOLUTION	SENSORS EMPLOYED
Altitude	typical: 23.6ft/7.2 m from 750 to 1100 mBar max: 48.2 ft/14.7 m from 300 to 750 mBar	1 ft 1 m	Pressure, User Input (Reference Pressure)
Barometric Pressure	0.07 inHg 2.4 hPa mbar 0.03 PSI	0.01 inHg 0.1 hPa mbar 0.01 PSI	Pressure, User Input (Reference Altitude)
Density Altitude	226 ft 69 m	1 ft 1 m	Temp, RH, Pressure
Dew Point	3.4 °F 1.9 °C 15-95% RH. Refer to Range for Temperature Sensor	0.1 °C	Temp, RH
Heat Index	4.0°C	0.1 °C	Temp, RH
Wet Bulb Temp. - Psychrometric	1.8 °C	0.1 °C	Temp, RH, Pressure
Wind Chill	0.9 °C	0.1 °C	Wind Speed, Temperature

Models Available

- KAU-KES-0850-BLK Kestrel 5000 Environmental Meter (Black)
- KAU-KES-0850LBLK Kestrel 5000 Environmental Meter with LiNK (Black)