

Kestrel[®] 3000 Pocket Weather[™] Meter with Backlight

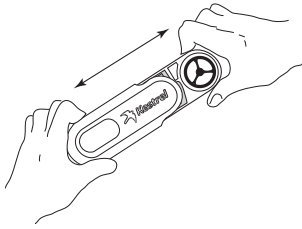
Thank you for purchasing the Kestrel 3000 Pocket Weather Meter. This instrument will measure the following environmental conditions:

- wind speed
- maximum wind gust
- average wind speed
- temperature
- wind chill
- relative humidity
- heat stress
- dewpoint

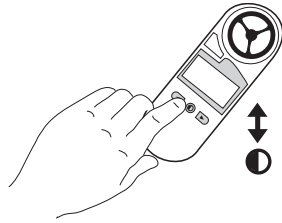
This instrument also features a data hold function, a backlight, and an automatic power-down function. Every unit is fully tested at our factory for measurement accuracy and waterproof integrity. The one-year warranty can be extended to two years by simply filling out the attached registration card.

OPERATION

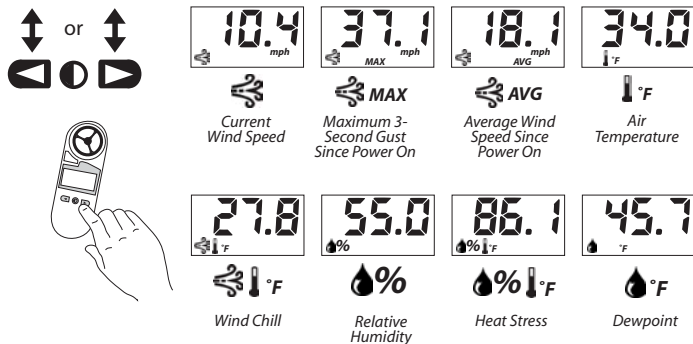
1) Slide off cover.



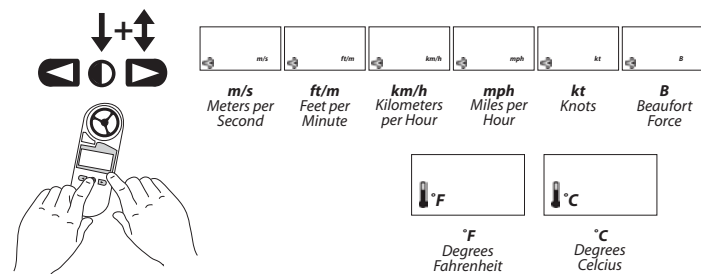
2) Turn on: Press the center button (⏻) to turn on the unit.



3) Select operating mode. Press the right arrow (▶) to scroll through the measurements listed below. Press the left arrow (◀) to scroll through the measurements in reverse order. The instantaneous measurements will be displayed. (See Understanding the Measurements section for more information.)



4) Select the units of measure. Press ▶ while holding ⏻ to scroll through the units of measure.



- 5) Hold mode.** Press ◀ while holding ⏻ to hold the measured value on the display. The word "HOLD" will blink to indicate the Hold Mode. Press ◀ or ▶ to view the other measurements in Hold Mode. Press ◀ while holding ⏻ to exit the Hold Mode. This mode can be useful for taking measurements when unable to view the display, as within a duct. The Max and Avg Wind Speed Modes will continue to work as usual.
- 6) Turn on the backlight.** Press ⏻ to activate the backlight for 10 seconds. If ◀ or ▶ are pressed while the backlight is illuminated, the backlight will remain illuminated for another 10 seconds. Press ⏻ while the backlight is illuminated to manually turn off the backlight.
- 7) Turn off.** Hold ⏻ for 2 seconds to manually turn off the unit. The unit will automatically turn off if no buttons have been pressed for 45 minutes.

UNDERSTANDING THE MEASUREMENTS

Wind Speed - average over the previous three seconds. The measurement will be accurate for air flow through the front or rear of the unit.

Maximum Wind Gust - maximum 3 - second wind speed since the unit was turned on.

Average Wind Speed - average wind speed since the unit was turned on.

Temperature - instantaneous temperature of the thermistor, which is located at the end of the long coiled leads in the open cavity below the impeller. The exposed thermistor will respond quickly to changes in temperature when air flows past it. For fastest response, either hold the unit into the wind or wave the unit side to side for 15 seconds. Readings should be taken in the shade.

Wind Chill - combination of wind speed and temperature, as defined by the US National Weather Service. Wind chill is the effective temperature on a human or animal at low temperatures due to wind speed. Wind chill readings will be the same as the temperature readings above 45°F or below 3 mph.

Relative Humidity - amount of moisture in the air compared to the amount of moisture the air can hold for the given temperature, represented as a percent. Because relative humidity is also a function of the temperature, the response time will be dependent on the temperature response time (see temperature section above). Readings should be taken in the shade.

Heat Stress - combination of temperature and humidity, as defined by the US National Weather Service. Heat stress is the effective temperature on a human or animal at high temperatures due to humidity. Heat stress readings will be the same as the temperature readings below 70°F.

Dewpoint - calculated based on temperature and humidity measurements, as a measure of moisture content in the air. If the dewpoint is very close to the temperature, the air is humid. If the temperature and dewpoint are the same, dew will form. If this happens below freezing, frost will form.

MAINTENANCE & TROUBLESHOOTING

Storing Your Kestrel

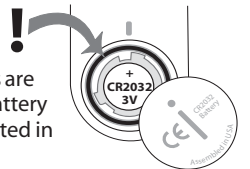
Avoid storing your Kestrel where it will be exposed to temperatures below -30°C [-22°F] or above 80°C [176°F] for extended periods of time. Doing so may cause permanent damage. (Note that the inside of a car parked in the hot sun can reach very high temperatures.)

Use of the Lanyard and Cover

The cover can be captured on the lanyard to avoid loss. First, remove the cord poplock. Then feed the lanyard end through the large opening in the over and out the slot. Replace the poplock on the lanyard.

Replacing the Battery

When your display flashes the low battery indicator (⚡), replace the battery. Use a large coin to open the battery compartment. Insert a new CR2032 coin cell (available where watch batteries are sold), positive (+) pole up. When replacing the battery door, be sure to keep the black rubber o-ring seated in the groove on the case back.



Thank you for purchasing a Kestrel Pocket Weather Meter! **Please register your Kestrel within 30 days of receipt and receive an additional year of warranty coverage.** This information will be kept confidential. Any information collected about our customers will not be sold or distributed, and will be used for the business of Nielsen-Kellerman only. We are conducting this survey in order to improve the quality of our product. Thank you for your cooperation and we appreciate your time.

The team at Nielsen-Kellerman stands proudly behind our products. If you have any questions or comments please feel free to call us at 1.800.784.4221 or visit our website at www.nkhome.com.

Sincerely,

Katu

Nielsen-Kellerman
Sales Department

