



USER GUIDE

1000, 2000, 2500 & 2500NV,
3000, 3500 & 3500NV, 3500DT





Your Kestrel Weather & Environmental Meter is designed to provide accurate measurement of current conditions only. Depending on your location and environment, conditions may change rapidly.

Rapid temperature and humidity changes (i.e., moving your meter from indoors to outdoors) may cause inaccurate readings of temperature and humidity, as well as all readings that rely on either of these values. Before relying on Kestrel Weather & Environmental Meter readings, be sure to use care to either a) force air flow over the sensors by waving or slinging your meter through the air; or b) wait until your unit's readings have stabilized, indicating that it has equilibrated to its new environment.

To maximize the accuracy and reliability of your readings:

- *Ensure that your Kestrel Meter is in good repair and within factory calibration.*
- *Take readings frequently and carefully according to the guidelines above.*
- *Allow your meter's readings to stabilize after significant changes in temperature or humidity (i.e., changing location from indoors to outdoors).*
- *Allow a margin of safety for changing conditions and reading errors (2-3% of reading is recommended).*

Use extra care and good judgment when referring to your Kestrel Weather & Environmental Meter to make any decisions regarding safety, health or property protection.



To reduce the risk of injury or death to persons, read and follow these guidelines!

Your Kestrel Weather/Environmental Weather Meter may provide Heat Index or Wind Chill Index, measurements relating to estimation of danger of injury to people or animals from heat or cold. Certain individuals or animals may be more susceptible to harm relating to environmental conditions and require additional precautions. For example, very young or elderly individuals, individuals with asthma, and individuals who have not become acclimatized to hot conditions are likely to be more prone to heat injury.

- *Know yourself and the individuals and items you are responsible for.*
- *Where appropriate, seek the guidance of a medical professional.*
- *Know what to do in the event of heat or cold injury and be prepared with supplies.*
- *In the case of heat illness, remember the rule – "Cool first, transport second." An inexpensive ice bath can mean the difference between life and death.*

Your Kestrel Weather/Environmental Meter is not a medical device. It is only one source of information and must be employed with care and good judgment.

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This User Guide contains only the information you need to get started using your Kestrel meter. For FAQ's, chat and e-mail support, visit www.kestrelinstruments.com.

中国区代理商：上海亨东仪器有限公司
工作时间：周一至周五（8：30 -17：30）
免费热线：400-991-9227
手机：13661698706
E-Mail：13661698706@139.com
<https://www.shhd17.com>

CAUTION

CR2032 batteries contain lithium, a toxic substance. Ingestion may cause serious injury or death. Keep battery out of the reach of children. If swallowed, immediately seek medical help. Have doctor phone 24-hour hotline at (202) 625-3333, call collect if necessary. Dispose of batteries properly and according to local regulations. Do not puncture or burn batteries. If the battery compartment does not close securely, stop using the product and keep it away from children.

FEATURES & OPTIONS

The table below shows all Measurement screens available, listed with their corresponding screen icon and "Hint" abbreviation.

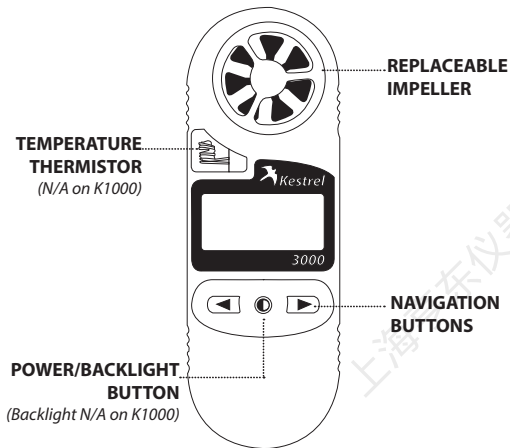
Measurement	Icon	Hint	Units of Measure	1000	2000	2500	3000	3500	3500DT
Wind Speed		SPd	mph kt B m/s ft/min km/h	•	•	•	•	•	•
Temperature		dEG	°F °C		•	•	•	•	•
Wind Chill		chill	°F °C		•	•	•	•	
Relative Humidity		r.h.	%				•	•	•
Heat Stress Index		H.I	°F °C				•	•	
Dewpoint Temp		d.P.	°F °C				•	•	•
Barometric Pressure		bAro	inHg hPA mb			•		•	•
Altitude		Alt	m ft			•		•	•
Wet Bulb Temp		bulb	°F °C					•	•
Backlit Display					•	•	•	•	•
Pressure Trend						•		•	
Delta T		dElT							•
Clock						•		•	•

*The NV series features a dim red backlight for use in low light or nighttime situations.

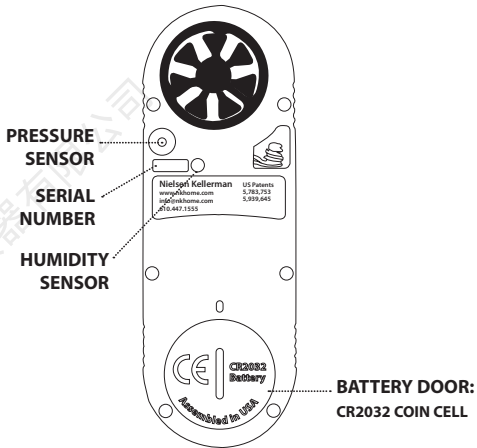
*Only one arrow icon will be displayed on screen to indicate the 3-hour pressure trend.

GETTING TO KNOW YOUR KESTREL

FRONT





BACK





*All Kestrel Meters with temperature measurement allow you to measure air, water and snow temperature.


Turning ON and OFF

- Press  to turn on.
- Hold  for 3 seconds to turn off.

 The Kestrel Meter will automatically turn off if no buttons have been pressed for 45 minutes.

Select Measurement Mode

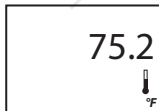
- Use  or  to access each Measurement screen
- The instantaneous Measurement value will be displayed on each screen and updated once per second.

 Each Measurement screen will flash a brief "Hint" to clarify which Measurement is being displayed. Note: Hints are not displayed in the Kestrel 1000.

The Measurement's icons and units of measure will be displayed in the lower line of the screen.





Temperature "Hint" flashes before









Temperature Measurement Screen

Select the Unit of Measure

- Select the unit of measure. While holding , press  to scroll through the available units of measure for that measurement.

Adjust the Clock

**This applies to the 2500, 2500NV, 3500, 3500NV and 3500DT.*

- Adjust the clock. Simultaneously press  and  to access clock setting. While the time is blinking, press  or  to change the time. Hold either button down to adjust quickly. Simultaneously press  and  to exit clock setting.

SETTING REFERENCE BAROMETRIC PRESSURE & ALTITUDE: KESTREL 2500 & KESTREL 3500 ONLY

□ The Kestrel Meter measures “station pressure,” which changes in response to both changes in altitude and changes in atmosphere. Barometric pressure is a measurement of the air pressure adjusted to sea level. **To obtain accurate barometric pressure and altitude readings, you must first enter EITHER your location’s current barometric pressure OR your current altitude.**

**Station pressure is displayed if the reference altitude is set to zero.*

Starting with Known Altitude for your Location

- Use ◀ or ▶ to highlight the “BARO” screen.
- Press ◀ and ▶ simultaneously until the word “REF” starts blinking on screen.
- Use ◀ or ▶ to adjust the value to the correct known Altitude.
- Press ◀ and ▶ simultaneously to exit the reference setting mode.

□ *After the Altitude reference is set, place the unit on a table and allow it to stabilize. The accurate Barometric Pressure reading will then be displayed on screen.*

Note the correct barometric pressure reading above and use this measurement to set the Altitude:

- Use ◀ or ▶ to highlight the “Altitude” screen.
- Press ◀ and ▶ simultaneously until the word “REF” starts blinking on screen.
- Use ◀ or ▶ to adjust the value to the barometric pressure measurement noted above.
- Press ◀ and ▶ simultaneously again to exit the setting mode.

Starting with Known Barometric Pressure for your Location

- Use ◀ or ▶ to highlight the “Altitude” screen.
- Press ◀ and ▶ simultaneously until the word “REF” starts blinking on screen.
- Use ◀ or ▶ to adjust the reference value to the correct known Barometric Pressure.
- Press ◀ and ▶ simultaneously again to exit the setting mode.

□ *After the Pressure reference is set, place the unit on a table and allow it to stabilize. The accurate Altitude reading will then be displayed on screen.*

Note the correct altitude reading above and use this to set the Barometric Pressure:

- Use ◀ or ▶ to highlight the “BARO” screen.
- Press ◀ and ▶ simultaneously until the word “REF” starts blinking on screen.
- Use ◀ or ▶ to adjust the reference value to the correct known Altitude.
- Press ◀ and ▶ simultaneously again to exit the setting mode.

Once these steps are complete, both screens will display accurate readings.

**Be sure to adjust your reference measurements when you change your location for altitude and/or barometric pressure or when there has been dramatic change in weather conditions.*

MEASUREMENTS

Barometric Pressure Trend

- ↑ : indicates pressure is rising quickly ($> +0.18$ inHg) in 3 hours
- ↗ : indicates pressure is rising (within $+0.06$ and $+0.18$ inHg)
- : indicates pressure is stable (remains between -0.06 and $+0.06$ inHg)
- ↘ : indicates pressure is dropping (within -0.06 and -0.18 inHg)
- ↓ : indicates pressure is falling quickly (> -0.18 inHg)

Select Units of Measure

- Use ◀ or ▶ to scroll to the desired Measurement screen.
- Hold down ⏻, then press ▶ to set the desired Units of Measure for the Measurement.

Water and Snow Temperature

The Kestrel Meter may also be used to measure the temperature of water and snow. Submerge the thermistor portion (curly exposed wire in window next to impeller) in water or snow to get an accurate reading. Kestrel Meters are completely waterproof, float and can be safely submerged in water according to IP-67 standards (up to 1 meter for a maximum of 30 minutes).

Max/Avg Function

To view the maximum wind gust recorded, press ◀ or ▶ until you see "MAX" appear at bottom of screen. Press again to view average wind gust. "AVG" will appear at bottom of screen. Both Max and Average are reset each time the unit is powered down. To restart averaging, simply turn the unit off and back on again.

Hold Mode

◻ Hold Mode can be useful for taking measurements when you are unable to view the display.

- Hold down ⏻, then press ◀.
- The word "HOLD" will blink on each screen and all values will stop measuring and freeze in memory.
- Use ◀ or ▶ to view each Measurement screen in Hold Mode.
- To exit Hold Mode, hold down ⏻, then press ◀ again.

Backlight*

- Press ⏻ to activate the backlight for 10 seconds.
- Press ⏻ again to manually deactivate the backlight before 10 seconds expire.

*The Kestrel 1000 Meter does NOT offer a backlight.

Replacing the Battery

When your display becomes dim or disappears, you need to change the battery.

Use a US nickel or similar coin to twist open the battery compartment.

Replace battery with a new, clean CR2032 coin-cell battery, with positive side (+) facing up.

CR2032 batteries are available in most stores that sell batteries.

□ *When replacing the battery door, be sure to keep the black rubber o-ring seated in the groove on the case back.*

