



Nothing else measures up!

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Pocket Wind Meter



Operating Instructions

FEATURES & OPTIONS

The table below shows all Measurement screens available, listed with their sponding 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	i	dEG	"F "C						
Wind Chill	-01	chill	"F "C						
Relative Humidity	6 %	r.h.	96						
Heat Stress Index	6 968	HJ	'F 'C						
Dewpoint Temp		d.P.	"F "C						
Barometric Pressure	t	bAro	inHg hPA mb						
Altitude	-	Alt	m ft						
Wet Bulb Temp	6i	bulb	'F 'C						•
Backlit Display									
Pressure Trend	-								
Delta T	i	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 REPLACEABLE SENSOR SERIAL HUMIDITY NAVIGATION BUTTONS POWER/BACKLIGHT (Backlight N/A on K10) CR2032 COIN CELL

GETTING STARTED

Turning ON and OFF Press © to turn on.

Hold © for 3 seconds to turn off.

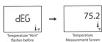
☐ The Kestrel Meter will automatically turn off if no buttons have been pressed for 45 minutes.

Select Measurement Mode

 The instantaneous Measurement value will be displayed on each screen and updated once per

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.



ALTITUDE: KESTREL 2500 & KESTREL 3500 ONLY

Starting with Known Altitude for your Location

Use or to highlight the "BARO" screen.

reference setting mode.

setting mode.

 Press a and simultaneously until the word Use: (a) or (b) to adjust the value to the correct known Altitude.

Press (a) and (b) simultaneously to exit the

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

 imultaneously 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

BAROMETRIC PRESSURE & ALTITUDE ADJUSTMENT

SETUP + OPTIONS

Select the Unit of Measure

of measure for that measurement.

Starting with Known Barometric Pressure for

Use (or) to adjust the reference value to the correct known Barometric Pressure.

Press (a) and (b) simultaneously again to exit

Note the correct altitude reading above and Use ■ or ■ to highlight the "BARO" screen.

Press and simultaneously until the

Press and simultaneously again to exit

tne setting mode.

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

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

word "REF" starts blinking on screen Use or to adjust the reference value to the correct known Altitude.

Use ■ or ■ to highlight the "Altitude" Press and simultaneously until the

word "REF" starts blinking on screen

the setting mode

the setting mode

Adjust the Clock

00, 2500NV, 3000, 3500, 3500NV and 3500DT.

· Adjust the clock. Simultaneously press - and The took and the setting.

The Kestrel temperature sensor exhibits virtually zero drift over time and generally does not require recalibration for accurate performance during the life of the product. If your industry or application requires calibration, please contact NK or a certified calibration lab for options and pricing.

Humidity Sensor (Kestrel 3000 and higher)

be up to +/- 2% over 24 months. For high-precision applications, we recommend recalibration at 24-month intervals. If you require calibration, please contact NK or a certified calibration lab for

options and pricing. The humidity sensor may also

Pressure Sensor (Kestrel 2500 & 3500)

The Kestrel pressure sensor drift may be up to 1 mbar over 12 months. For high-precision applications, we recommend recalibration at 12-month intervals. If you require calibration, please contact NF or a certified calibration lab for options and pricing The pressure sensor may also be recalibrated in the field with reference to a known-accurate and calibrated pressure standard. We do not recommend simply recalibrating to a local weather station as this may not be accurate for your location. Instruction for recalibrating the pressure sensor may be found at www.kestrelinstruments.com/category-ser-vice-calibration/kestrel-calibration.

obsorts date of manufacture.

copy for the warranties set forth herein, NK disclaims all other warranties, expressed, implied or autory, including, but not limited to, the implied warranties of merchantability or fitness for a retuctival purpose, Any implied warranties that may be imposed by applicable law are limited to the ron of this warranty, in one establish the liable for any incidental, special or consequential dams coulding, but not limited to, loss of business, loss of profits, loss of distor use, whether in an action contract or not no based on a warranty, arising out of or in connection with the use or recultantial contractions. The contraction is the contraction of the contrac performance of an NK product, even if NK has been advised of the possibility of such damages. You agree that repair, and (upon availability) replacement, as applicable your sole and exclusive remedy with respect to any breach of the NK Limited Warranty ment as annlicable is

To view the maximum wind gust recorded, press 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

And Mode can be useful for taking measurements when you

- 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
- To exit Hold Mode, hold down ♥, then press ◀

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.

MAINTENANCE & SERVICE ADDENDUM

Barometric Pressure Trend

i indicates pressure is rising quickly (> +0.18 in Hg) in 3 hours

i indicates pressure is rising (within +0.06 and +0.18 in Hg)

i indicates pressure is rising (within +0.06 and +0.18 in Hg)

i indicates pressure is discipping (within +0.06 and -0.18 in Hg)

i indicates pressure is dringing quickly (> -0.18 in Hg)

i indicates pressure is falling quickly (> -0.18 in Hg)

Hold down

, then press

to set the desired Units of Measure for the Measurement.

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

Use or to scroll to the desired

Replacing the Battery

maximum of 30 minutes).

MEASUREMENT NOTES

Barometric Pressure Trend

Select Units of Measure

Water and Snow Temperature

MEASUREMENTS

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

Use a US nickel or similar coin to twist open the battery Replace battery with a new, clean CR2032 coin-cell

battery, with positive side (+) facing up. CR2032 batteries are available in most stores that sell

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

SENSOR CALIBRATION

The Kestrel impeller calibration drift is less than 1% after 100 hours of use at 16 MPH | 7 m/s. Drift increases with higher-speed use. For most users, the impeller will provide accurate wind speed/air flow readings for years if not physically damaged. However, if your application requires extremely high precision or if you perform frequent high-speed readings, we recommend you replace your impeller at one-year intervals. Every replacement impeller is supplied with a certificate of conformity and estores your Kestrel's calibration upon installation.

Temperature Sensor (Kestrel 2000 and higher)

The Kestrel humidity sensor calibration drift may

be recalibrated in the field using a Kestrel Humidity Calibration Kit (NK PN-0802) Instructions for running the recalibration routine are provided with the Humidity Calibration Kit and may also be found at www.kestrelinstruments.com/mwdownloads/ download/link/id/37/

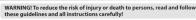
5 YEAR LIMITED WARRANTY

Your Kestrel instruments is warranted to be few of derekt in materials and workmanship for a period of FPE YEARS from the date of its first consumer purchase. Nix will repair or replace any defective product or part when notified within the warranty period, and will even the product via domestic ground shipping or Nix Shocke of method of international shipping at nor charge. The following are excluded from warranty coverage damage due to imprope use, tousage, materianates or handing including concrosion, diamage caused by server or or attempted repairs by someone other than an authorized Nix repair agent; impeller fallare not caused by a manufacturing defect romal usage were and falled batteries. Assessment science is warranted to be with the specifications on the supplied certificate of Conformity including specified offit since date of manufacture. If no warranty registration or poor of grounds see provided, the warranty period will be measured from the producty date of manufacture.

All product liability and warranty options are governed exclusively by the laws of the

Please register your Kestrel instrument at www.kestrelinstr

SAFETY WARNINGS



Read your Kestrel Instrument's ENTIRE user manual to become familiar with the features of the product before operating. Fallure to operate the product correctly are result in damage to the product or inaccurate environmental readings. Use care and good judgment whenever you are referring to any Kestrel instrument to make decisions regarding safety, health or property protecting.

- Pay careful attention to the recommendations in this guide and your Instruction Manual on "Taking Accurate Measurements."
- Be certain your Kestrel's accuracy has not been compromised by improper storage or handling. contamination, or product damage. When in doubt, verify your Kestrel's accuracy against a known good standard for the measurement in question, or return your Kestrel to the manufacturer for validation and/or calibration.
- Allow a margin of safety for changing conditions and reading errors (2-3% of reading is

WOTICE: All instructions and associated documents are subject to change at the sole discretion of the

SAFETY WARNINGS FOR HEAT STRESS AND COLD EXPOSURE MEASUREMENTS



- Undersard that the Heat Stress Index. Wind Chill Index, Wet Bulb Clobe Temperature ("WRGT") and Themal Work Limit TWT (Indices are well a guidance albe Evoat on these values are based on typical physiological response. Certain individuals or animals may be more susceptible to have meeting to environmental conditions and require additional pressurious. For example, very young or elderly individuals, individuals with asthma, and individuals who have not become acclimated to hot conditions are likely to be more prone to be fart injury.
- Know yourself and the individuals and items you are responsible for when making decisions about safe levels of exertion and exposure. Where appropriate, seek the quidance of a medical

Recognizing and Responding to Possible Heat Injury

- 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.

TAKING ACCURATE MEASUREMENTS



CAUTION! Your Kestrel instrument 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 product from indoors to outdoors) may cause inaccurate readings of temperature and humidity as well as all readings that rely on either of these values. This includes ALL measurements relating

Refore relying on readings from your Kestrel instrument, be sure to either

Force air flow over the sensors by waving or slinging your product through the air; or Wait until your unit's readings have stabilized, indicating it has equilibrated to its new

- To maximize the accuracy and reliability of your readings:

 Ensure that your Kestrel instrument is in good repair and within factory calibration.

 Take readings frequently and carefully according to the guidelines above.
- Allow your instrument's readings to stabilize after significant changes in temperature or humidity (i.e., changing location from indoors to outdoors).

BATTERY SAFETY

must read and follow these warnings regarding the lithium batteries found in your Kestrel instrument





- Keep battery out of the reach of children. Be particularly careful with coin cell batteries as they are very attractive to children and easily swallowed!
- If a battery is 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.

We recommend that ONLY Lithium batteries be used in your i batteries. If you must use Damage caused by battery corrosion is not covered under warranty.

CALIFORNIA PROP 65



WARNING! This product and/or its included or branded accessories can expose you to chemicals, including lead, lead compounds and phthalate DEHP, which are known to the State of California to cause cancer and lead and lead compounds, bisphenol A (BPA), and phthalate DnHP, which are known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warning.ca.gov.

More Information

Many of the elements listed under Proposition 65 are commonly found in products in the electronics industry. Although Kestrel Instruments' manufacturing process is "lead-free," it remains possible that small amounts of lead could be found in components or subassemblies Bisphenol A (BPSA) could be found in plastic housings, lenses, labels or adhesives, and DEHP & DINP (phthalates) could be found in PVC wire coatings of cables, housings, carrying cases, an/ or power cords. Because we cannot guarantee that these chemicals are never present, we have elected to place the warning on our products to ensure compliance with California law and our customers' right to know. While we have not attempted to evaluate exposure, we believe that normal consumer use of this product is unlikely to result in exposure that creates a significant risk of harm. For more information visit www.kestrelinstruments.com/Prop65 or contact us directly at techsupport@nkhome.com.

COMPLIANCE This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference, This device must accept any interference received, including interference that may cause undesired operation. This Class B digital device complies with Canadian ICES-003. Conforms with Council Directive 2004/108/EC (12/15/2004) on Electromagnetic ϵ RoHS(Reduction of Hazardous Substances) compliant. Marked in accordance with the WEEE (Waste Electrical and Electronic Equipment) Directive. Please do not dispose of the Kestrel batteries in your household trash. Return to NK, an NK dealer, or a designated recycling center for proper recycling and disposal. Does not contain greater than >0.1% of the substances of Very High Concern (SVHC) on the REACH European Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals Candidate List.



PROUDLY DESIGNED



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