Kestrel 0830ORA

Kestrel 3000 Pocket Weather Meter / Heat Stress Monitor

Brand: Kestrel | **Model:** 0830ORA

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1. INTRODUCTION

The Kestrel 3000 Pocket Weather Meter is a rugged, handheld device designed for accurate environmental measurements. It provides essential data for various applications, including outdoor activities, agriculture, and research. This meter is built to withstand harsh conditions, being waterproof (IP-67), floatable, and drop-tested to military standards (MIL-STD-810G).

It measures a comprehensive range of environmental parameters, including heat stress index, relative humidity, dew point temperature, wind chill, air/water/snow temperature, and current/average/maximum wind speeds, all displayed on a clear LCD.

2. WHAT'S IN THE BOX

- Kestrel 3000 Pocket Weather Meter
- Neck Lanyard
- Protective Slip-on Cover
- CR2032 Lithium Coin Cell Battery (pre-installed or separate)
- Certificate of Conformity

Figure 2.1: Front view of the Kestrel 3000 Pocket Weather Meter.

3. SETUP

3.1. Battery Installation

The Kestrel 3000 requires one CR2032 Lithium Metal battery. The battery compartment is located on the back of the unit.

1. Locate the battery cover on the back of the device.
2. Using a small coin or screwdriver, turn the battery cover counter-clockwise to unlock it.
3. Remove the old battery (if applicable) and insert a new CR2032 battery with the positive (+) side facing up.
4. Replace the battery cover and turn it clockwise to secure and seal the compartment. Ensure it is tightly sealed to maintain waterproof integrity.

Figure 3.1: Rear view of the Kestrel 3000, highlighting the battery compartment.

4. OPERATING INSTRUCTIONS

4.1. Power On/Off

- To turn on: Press the center button (power/mode button).
- To turn off: Press and hold the center button for approximately 3 seconds until the display turns off. The unit will also automatically power off after a period of inactivity to conserve battery.

4.2. Navigating Modes

Use the left and right arrow buttons to cycle through the different measurement modes. The Kestrel 3000 offers the following modes:

- **Wind Speed:** Current, Average, and Maximum wind speed (displayed in mph, km/h, knots, m/s, or ft/min).
- **Temperature:** Air, Water, and Snow temperature (displayed in °F or °C).
- **Wind Chill:** Calculated wind chill temperature.
- **Relative Humidity:** Percentage of relative humidity.
- **Heat Stress Index:** Calculated heat stress index.
- **Dew Point:** Calculated dew point temperature.

To reset average/max values in wind speed mode, press and hold the center button while in the respective mode.

Figure 4.1: The Kestrel 3000 in use, demonstrating its compact size and clear display.

5. MAINTENANCE

5.1. Cleaning

Clean the Kestrel 3000 with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the impeller area is free from debris for accurate wind speed readings.

5.2. Impeller Replacement

The Kestrel 3000 features a large, replaceable impeller. If the impeller becomes damaged or worn, it can be easily replaced to maintain accuracy. Refer to the official Kestrel website or contact support for replacement parts and instructions.

5.3. Storage

When not in use, store the Kestrel 3000 in its protective slip-on cover in a cool, dry place. For long-term storage, it is recommended to remove the battery to prevent leakage.

Figure 5.1: The Kestrel 3000 with its protective cover, ideal for storage and transport.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Low or dead battery.	Replace the CR2032 battery. Ensure it is inserted correctly.
Inaccurate wind speed readings.	Impeller obstructed or damaged.	Check the impeller for debris. If damaged, replace the impeller.
Inaccurate humidity/temperature readings.	Sensor obstructed or needs time to acclimate.	Ensure the sensor area is clear. Allow the unit to acclimate to the environment for a few minutes.
Unit does not respond to button presses.	Unit frozen or battery issue.	Remove and reinsert the battery to perform a soft reset. If problem persists, replace battery.

7. SPECIFICATIONS

Feature	Detail
Model Number	0830ORA
Product Dimensions	1.89 x 0.43 x 0.75 inches
Weight	3.6 ounces
Power Source	1 x CR2032 Lithium Metal Battery
Waterproof Rating	IP-67 (submersible to 1 meter for 30 minutes)
Drop Test Standard	MIL-STD-810G
Measurements	Wind Speed (Current/Avg/Max), Temperature, Wind Chill, Relative Humidity, Heat Stress Index, Dew Point
Display	Large, Clear LCD
Country of Origin	United States

8. WARRANTY AND SUPPORT

The Kestrel 3000 Pocket Weather Meter is manufactured by Kestrel (Nielsen-Kellerman Company). For specific warranty information, product support, or to purchase replacement parts, please refer to the official Kestrel Instruments website or contact their customer service directly.

Online Resources:

- Official User Guide (PDF): Download User Guide
- Manufacturer Website: Kestrel Instruments

[pdf] User Manual

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Weather Environmental Meters INSTRUCTION MANUAL 1000, 2000, 2500 2500NV, 3000, 3500 3500NV, 3500DT 1 CAUTION Your Kestrel brand Weather Meter is designed to provide accurate measurement of current conditions only. Depending on your location and environment, conditions may change rapidly. R...

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