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Kestrel OB-KEST-0730FWORA

Kestrel Drop D3FW Fire Weather Monitor User Manual

Model: OB-KEST-0730FWORA

Brand: Kestrel

1. OVERVIEW

The Kestrel Drop D3FW Fire Weather Monitor is a wireless, rugged, and waterproof environmental data logger designed to monitor and track critical weather conditions. It records temperature, humidity, heat index, dew point temperature, station pressure, and wet bulb temperature. The device stores thousands of data points and allows customization of logging rates and temperature alerts. Its compact size and integrated D-ring enable convenient and unobtrusive use in various indoor and outdoor environments.



Figure 1: Front view of the Kestrel Drop D3FW Fire Weather Monitor.

Data collected by the Kestrel Drop D3FW can be viewed, saved, and shared using any Bluetooth-enabled iOS or Android device via the Kestrel Link app.

Video 1: An overview of Kestrel DROP Monitors, demonstrating their features and connectivity.

2. SETUP

2.1 Battery Installation

The Kestrel Drop D3FW requires one CR2032 Lithium Metal battery for operation. Ensure the battery is fresh and genuine for optimal performance and longevity.

1. Locate the battery compartment on the back of the device.
2. Use a small coin or screwdriver to carefully twist open the battery cover.
3. Insert a new CR2032 battery with the positive (+) side facing up.
4. Replace the battery cover and twist to secure it firmly.

MEASUREMENTS	DROP D1	DROP D2	DROP D2HS	DROP D2AG	DROP D3	DROP D3FW
Temperature	✓	✓	✓	✓	✓	✓
Relative Humidity		✓	✓	✓	✓	✓
Dew Point Temp.		✓	✓	✓	✓	✓
Heat Stress Index		✓	✓	✓	✓	✓
Station Pressure (Absolute Pressure)					✓	✓
Density Altitude					✓	
Temperature Humidity Index (THI)				✓		
Wet Bulb Temperature (Psychrometric)						✓
Color Available	Red, Blue, Tan	Red, Blue, Tan	Orange	Hi-Viz Green	Red, Blue, Tan	Orange
	Buy Now					

Figure 2: Back view of the Kestrel Drop D3FW, highlighting the battery compartment.

2.2 Kestrel Link App Download and Device Pairing

To access and manage data from your Kestrel Drop D3FW, download the Kestrel Link app on your mobile device.

1. Download the **Kestrel Link** app from the Apple App Store (for iOS devices) or Google Play Store (for Android devices).
2. Ensure Bluetooth is enabled on your mobile device.
3. Open the Kestrel Link app. The app will automatically search for nearby Kestrel Drop devices.
4. Select your Kestrel Drop D3FW from the list of available devices to pair. Follow any on-screen prompts to complete the pairing process.



Figure 3: Kestrel Drop D3FW connected to the Kestrel Link app on a smartphone, displaying environmental data.

3. OPERATION

3.1 Data Monitoring

Once paired, the Kestrel Link app provides real-time environmental data from your D3FW monitor. The dashboard view displays current readings for temperature, humidity, heat index, dew point, station pressure, and wet bulb temperature.

3.2 Logging and Alerts

The Kestrel Drop D3FW continuously logs data. You can customize the logging rate through the Kestrel Link app settings. Additionally, the app allows you to set specific temperature alerts, notifying you if conditions exceed or fall below predefined thresholds.



Figure 4: The Kestrel Link app displaying a graphical representation of historical environmental data on a tablet.

3.3 Data Sharing

The Kestrel Link app facilitates easy sharing of collected data. You can export historical data as a .CSV file for detailed analysis or record-keeping. This file can then be shared via email or other communication platforms.



Figure 5: The Kestrel Drop D3FW deployed in an outdoor setting, attached to a tree.

4. MAINTENANCE

4.1 Battery Replacement

When the battery level is low, replace the CR2032 battery following the steps outlined in Section 2.1. Using genuine, fresh batteries is recommended to ensure consistent performance and prevent premature battery depletion.

4.2 Cleaning and Storage

To maintain the accuracy and longevity of your Kestrel Drop D3FW:

- Wipe the device with a soft, damp cloth to remove dirt or debris. Avoid using harsh chemicals or abrasive materials.
- Ensure the device is dry before storing.
- Store the device in a cool, dry place away from extreme temperatures and direct sunlight when not in use for extended periods.

5. TROUBLESHOOTING

- **Device not pairing:** Ensure Bluetooth is active on your mobile device and the Kestrel Drop D3FW is within range. Try restarting both the device and the app.
- **No data displayed in app:** Verify the device is powered on and has a fresh battery. Check the app's connection status to the device.
- **Inaccurate readings:** Ensure the device's sensors are clean and unobstructed. Allow the device to acclimate to the environment for a few minutes before taking critical readings.
- **Short battery life:** Use only genuine CR2032 Lithium Metal batteries. Avoid extreme temperatures, which can

affect battery performance.

6. SPECIFICATIONS

Feature	Specification
Brand	Kestrel
Model Number	OB-KEST-0730FWORA
Connectivity Technology	Bluetooth
Power Source	Battery Powered
Battery Type	1 Lithium Metal (CR2032)
Special Feature	IP-67 and MIL-STD-810G (Rugged, Waterproof)
Material	Durable Plastic or Rubber
Color	Orange
Item Weight	1.2 ounces (0.03 Kilograms)
Product Dimensions	0.94 x 0.35 x 0.71 inches
Temperature Accuracy	+/- 2% of measured temperature
Sensor Technology	Capacitive/Resistive
Display Type	LCD (via app)
Measurements	Temperature, Humidity, Heat Index, Dew Point Temp, Station Pressure, Wet Bulb Temperature

7. WARRANTY AND SUPPORT

For detailed warranty information, product registration, and technical support, please visit the official Kestrel Instruments website or contact their customer service. Keep your purchase receipt as proof of purchase for warranty claims.

Official Kestrel Website: www.nkhome.com/kestrel-meters/