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Oakton WD-35811-71

Oakton WD-35811-71 Acorn All-in-One pH Electrode Instruction Manual

For use with Oakton pH 6+ Meters

1. INTRODUCTION

The Oakton WD-35811-71 Acorn All-in-One pH Electrode is a robust and reliable sensor designed for accurate pH measurements when paired with compatible Oakton pH 6+ meters. This electrode features a single junction, epoxy body, and is sealed for durability and minimal maintenance. This manual provides essential information for the proper setup, operation, and care of your pH electrode.



Image 1: Oakton WD-35811-71 Acorn All-in-One pH Electrode. This image displays the electrode, a cylindrical probe with a cable extending from one end, designed for pH measurement.

2. SAFETY INFORMATION

Always handle the pH electrode with care. The glass bulb at the tip is fragile. Avoid dropping or subjecting the electrode to mechanical shock. Do not allow the electrode to dry out, as this can permanently damage the sensor. Always store the electrode in its protective cap with appropriate storage solution.

3. PRODUCT OVERVIEW

The WD-35811-71 electrode is an all-in-one design, meaning it integrates both the pH sensing element and the reference electrode into a single probe. Its epoxy body provides enhanced durability, making it suitable for general laboratory and field use. The sealed design minimizes maintenance requirements.



Image 2: Detailed view of the Oakton WD-35811-71 pH Electrode. This image shows the electrode from a different angle, highlighting the probe body, cable, and connector, providing a clearer view of its construction.

4. SETUP

4.1 Unpacking

- Carefully remove the electrode from its packaging.
- Inspect the electrode for any visible damage. If damage is present, contact your supplier immediately.

4.2 Initial Conditioning

- Remove the protective storage cap from the electrode tip. The cap typically contains a storage solution to keep the glass bulb hydrated.
- Rinse the electrode tip with distilled or deionized water. Do not wipe the glass bulb, as this can create static charges and affect readings.
- For optimal performance, condition the electrode by immersing the tip in pH 7 buffer solution for at least 30 minutes before first use.

4.3 Connecting to a pH Meter

- Ensure your Oakton pH 6+ meter is turned off.
- Carefully plug the electrode connector into the designated pH input port on your meter. Ensure a secure connection.
- Turn on the pH meter.

5. OPERATING

This electrode is designed to work seamlessly with Oakton pH 6+ meters, utilizing their advanced features for accurate measurements.

5.1 Calibration

Regular calibration is crucial for accurate pH measurements. Refer to your Oakton pH 6+ meter's manual for specific calibration procedures. The WD-35811-71 electrode supports:

- **Three-point pH calibration:** For enhanced accuracy across a wider pH range.
- **Auto buffer recognition:** The meter automatically identifies standard pH buffer solutions.
- **mV offset calibration:** Allows for fine-tuning of the electrode's millivolt response.

5.2 Taking Measurements

- Rinse the electrode with distilled water before and after each measurement.
- Immerse the electrode tip into the sample solution, ensuring the glass bulb and junction are fully submerged.
- Stir the solution gently to ensure homogeneity and allow the reading to stabilize.
- The meter's **Automatic Temperature Compensation (ATC)** feature will adjust readings for temperature variations, provided a temperature sensor is connected or temperature is manually entered.
- Use the meter's **Hold function** to freeze the current reading on the display.
- The meter's **Auto-off** feature will conserve battery life by automatically powering down after a period of inactivity.

6. MAINTENANCE

6.1 Cleaning the Electrode

- After each use, rinse the electrode thoroughly with distilled or deionized water.
- If the electrode becomes fouled with oil, grease, or other contaminants, clean it with a mild detergent solution or a specialized electrode cleaning solution. Follow the cleaning solution manufacturer's instructions.
- Never use abrasive materials or strong solvents to clean the electrode.

6.2 Storage

- Always store the electrode with its protective cap filled with pH electrode storage solution (e.g., 4M KCl solution).
- Never store the electrode dry or in distilled/deionized water, as this will dehydrate the glass bulb and shorten its lifespan.
- Ensure the storage solution level covers the glass bulb and reference junction.

7. TROUBLESHOOTING

- **Unstable or Drifting Readings:**

- Ensure the electrode is properly conditioned and calibrated.
- Check for air bubbles trapped around the glass bulb.
- Clean the electrode if it appears fouled.
- Verify the sample temperature is stable.

- **Slow Response:**

- The electrode may be dehydrated; recondition in storage solution.
- The electrode may be dirty; clean it thoroughly.
- The electrode may be nearing the end of its lifespan.

- **No Reading or Error Message:**

- Check the connection between the electrode and the meter.
- Ensure the meter is functioning correctly (test with another electrode if available).
- Refer to your pH meter's manual for specific error codes.

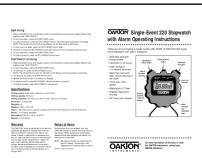
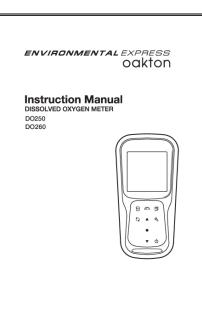
8. SPECIFICATIONS

Parameter	Specification
Model Number	WD-35811-71 (Internal: 1192M73EA)
Type	All-in-One pH Electrode
Junction	Single Junction
Body Material	Epoxy
Compatibility	Oakton pH 6+ Meters
Features Supported (via meter)	Automatic Temperature Compensation (ATC), Three-point pH calibration, Auto buffer recognition, mV offset calibration, Hold function, Auto-off
Package Dimensions	10.8 x 4 x 2.2 inches
Weight	0.02 ounces

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service, please refer to the documentation provided with your original purchase or contact Oakton Instruments directly through their official website or customer service channels. Please have your product model number (WD-35811-71) and purchase date available when contacting support.

Related Documents - WD-35811-71

	<p>OAKTON ION Acorn Series Meters: Operating Instructions and Guide</p> <p>Comprehensive operating manual for OAKTON ION 5 and ION 6 Acorn Series pH/Ion Meters. Covers setup, calibration, measurement, maintenance, and troubleshooting for accurate water quality analysis.</p>
	<p>OAKTON 410 Timer with Alarm: Operating Instructions and Specifications</p> <p>Comprehensive operating instructions and specifications for the OAKTON 410 Timer with Alarm (Model WD-35002-00), detailing its features, button functions, timing modes, and alarm settings.</p>
	<p>OAKTON Single-Event 220 Stopwatch with Alarm Operating Instructions</p> <p>Detailed operating instructions for the OAKTON Single-Event 220 Stopwatch with Alarm (Model WD-35002-10), covering stopwatch functions, time/calendar settings, alarm features, specifications, and warranty information.</p>
	<p>Oakton DO250/DO260 Dissolved Oxygen Meter Instruction Manual</p> <p>Comprehensive instruction manual for the Oakton DO250 and DO260 Dissolved Oxygen Meters, covering product overview, basic operations, calibration, data management, setup, maintenance, troubleshooting, and safety precautions.</p>
	<p>Oakton 300 Series Handheld Water Quality Meter Instruction Manual</p> <p>Instruction manual for Oakton 300 Series handheld water quality meters (models 350, 360, 380). Covers operation, calibration, maintenance, safety, and specifications for accurate water analysis.</p>
	<p>OAKTON pH 700 pH/ORP/TEMP Meter Operating Instructions</p> <p>This document provides comprehensive operating instructions for the OAKTON pH 700 pH/ORP/TEMP meter, covering its features, calibration, measurement procedures, troubleshooting, and technical specifications.</p>