

Oakton WD-35805-18

Oakton WD-35805-18 Spear-Tip Double-Junction pH Electrode

INSTRUCTION MANUAL

1. Introduction

The Oakton WD-35805-18 Spear-Tip Double-Junction pH Electrode is a specialized sensor designed for accurate pH measurements in various applications, particularly those involving semi-solid samples. Its unique spear-tip design allows for direct penetration into materials like food, soil, or gels, while the double-junction construction minimizes contamination of the reference electrolyte, ensuring stable and reliable readings. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your electrode.

2. Product Overview

The WD-35805-18 electrode features a robust glass body and a sealed, double-junction reference system. The spear-tip sensing bulb is specifically engineered for direct insertion into challenging samples. This design provides a faster response time and improved longevity compared to conventional electrodes when used with semi-solids.



Image of the Oakton WD-35805-18 pH electrode, showing its spear-tip design, glass body, and the 'OAKTON' branding. The electrode is designed for direct insertion into semi-solid samples.

3. Setup

1. **Initial Conditioning:** Before first use, or after prolonged storage, soak the electrode tip in a pH 4 or pH 7 buffer solution for at least 30 minutes. This rehydrates the glass bulb and ensures optimal performance.
2. **Connection:** Connect the electrode's BNC connector to a compatible pH meter. Ensure the connection is secure and dry.
3. **Calibration:** Calibrate the pH meter with the electrode using at least two fresh pH buffer solutions (e.g., pH 4.01, 7.00, and 10.00). Follow the specific calibration procedure outlined in your pH meter's instruction manual. Always calibrate at the temperature of your samples for best accuracy.

4. Operating Instructions

1. **Sample Preparation:** For semi-solid samples, ensure the sample is homogenous. If necessary, prepare the sample by gently mixing or grinding to achieve consistency.
2. **Measurement:**
 - Rinse the electrode with distilled or deionized water and gently blot dry with a lint-free tissue.
 - Carefully insert the spear-tip of the electrode directly into the semi-solid sample. Ensure the entire sensing bulb and junction are fully immersed.
 - Allow sufficient time for the reading to stabilize on your pH meter. This may take longer in viscous or low-ionic strength samples.
 - Record the stable pH reading.
3. **Between Samples:** Rinse the electrode thoroughly with distilled or deionized water between each measurement to prevent cross-contamination.

5. Maintenance

- **Cleaning:**
 - After each use, rinse the electrode thoroughly with distilled or deionized water.
 - For stubborn deposits (e.g., protein, grease), refer to your pH meter's manual or electrode manufacturer's guidelines for specific cleaning solutions. Avoid abrasive materials.
- **Storage:** Always store the electrode with its sensing bulb immersed in a proper electrode storage solution (e.g., Oakton electrode storage solution or a pH 4 buffer with KCl). *Never* store the electrode dry or in distilled/deionized water, as this will dehydrate the glass bulb and deplete the reference electrolyte.
- **Calibration Frequency:** The frequency of calibration depends on the accuracy required, the nature of the samples, and the frequency of use. For best results, calibrate daily or before each series of measurements.

6. Troubleshooting

Problem	Possible Cause	Solution
Unstable or Drifting Readings	Dehydrated bulb, dirty electrode, air bubbles, temperature fluctuations, insufficient sample immersion.	Recondition electrode, clean electrode, ensure proper immersion, allow sample to equilibrate to temperature.
Slow Response Time	Dirty or clogged junction, dehydrated bulb, old electrode.	Clean electrode, recondition, consider electrode replacement if old.
Inaccurate Readings / Calibration Failure	Contaminated buffers, incorrect calibration procedure, damaged electrode, temperature difference.	Use fresh buffers, re-calibrate carefully, inspect electrode for damage, ensure temperature consistency.

If issues persist after attempting these solutions, contact Oakton technical support.

7. Specifications

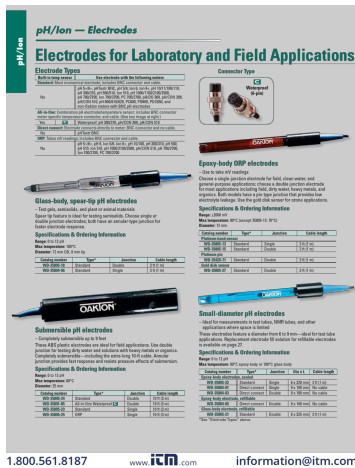
- **Model:** WD-35805-18
- **Electrode Type:** Spear-Tip Double-Junction pH Electrode
- **Body Material:** Glass
- **Junction Type:** Annular
- **Ideal Applications:** Semi-solid samples (e.g., food, soil, gels)
- **Manufacturer:** Oakton
- **ASIN:** B07QL2H8CF

8. Warranty and Support

For detailed warranty information and technical support, please refer to the official documentation provided with your purchase or visit the Oakton website. Contact information for customer service and technical assistance can typically be found on the manufacturer's product page or in the packaging materials.

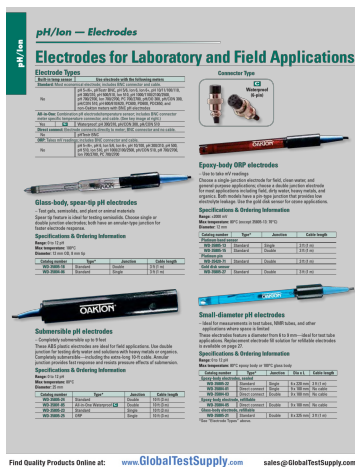
Related Documents - WD-35805-18

	OAKTON 410 Timer with Alarm: Operating Instructions and Specifications 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.
	Kärcher WD 2-18 / WD 3-18 / WD 3-18 S Bedienungsanleitung Umfassende Anleitung für Kärcher WD 2-18, WD 3-18, WD 3-18 S Nass- und Trockensauger. Informationen zur sicheren Bedienung, Wartung und technischen Daten.
	Kärcher WD 2-18 / WD 3-18 / WD 3-18 S Bedienungsanleitung Umfassende Bedienungsanleitung für Kärcher WD 2-18, WD 3-18 und WD 3-18 S Nass- und Trockensauger. Sicherheit, Wartung und Fehlerbehebung.
	Kärcher WD 2-18 / WD 3-18 / WD 3-18 S Bedienungsanleitung und Sicherheitshinweise Umfassende Bedienungsanleitung für die Kärcher WD 2-18, WD 3-18 und WD 3-18 S Nass- und Trockensauger. Enthält wichtige Informationen zu Sicherheit, Inbetriebnahme, Betrieb, Wartung und Fehlerbehebung.
	OAKTON ION Acorn Series Meters: Operating Instructions and Guide 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.
	LG Front Loading Washing Machines and Intellodryers: Features, Models, and Specifications Explore the range of LG Front Loading Washing Machines and Intellodryers, featuring Direct Drive technology, energy efficiency, and various models with detailed specifications and benefits. Find detailed information on capacity, performance, and smart features.



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pH/Ion pH/Ion -- Electrodes Electrodes for Laboratory and Field Applications
Electrode Types Bui ... ng Information Range: 0 to 12 pH Max temperature: 100C
Diameter: 12 mm OD, 8 mm tip Catalog number **WD-35805-18** WD-35804-06 Type*
Standard Standard Junction Double Single Cable length 3 ft 1 m 3 ...
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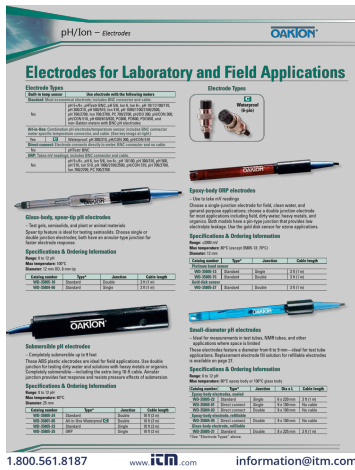
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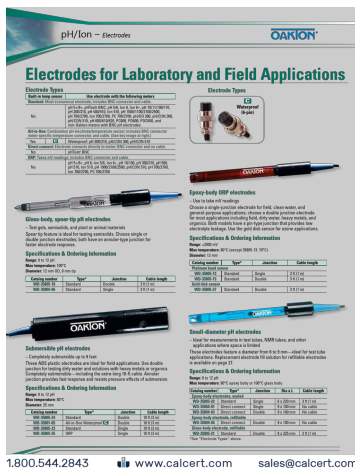
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response lower pH electrode replacement cost Catalog number Use with WD 35615 05 10 100 pH

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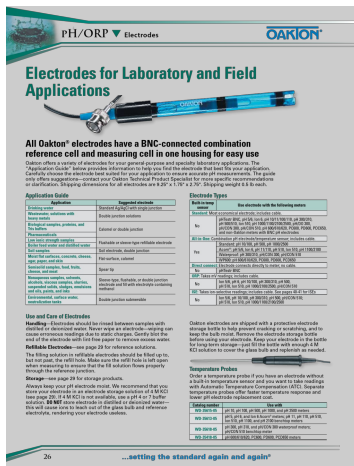
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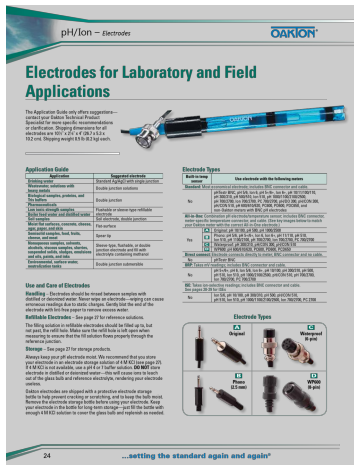
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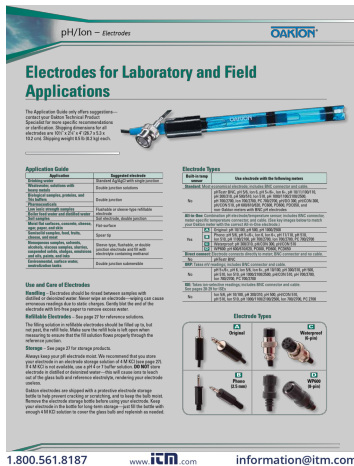


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