

Oakton WD-35608-90

Oakton WD-35608-90 Conductivity Probe K=0.1

INSTRUCTION MANUAL

1. Introduction

This manual provides essential instructions for the proper setup, operation, and maintenance of the Oakton WD-35608-90 Conductivity Probe. This probe is designed for accurate conductivity measurements and features a K=0.1 cell constant with a 4-cell epoxy body construction. It is specifically intended for use with compatible benchtop meters, such as the Oakton CON 2700.

Please read this manual thoroughly before using the probe to ensure optimal performance and longevity.

2. Setup

1. **Unpacking:** Carefully remove the conductivity probe from its packaging. Inspect for any visible damage.
2. **Connection:** Connect the probe's connector to the designated conductivity input port on your compatible benchtop meter (e.g., Oakton CON 2700). Ensure the connection is secure.
3. **Rinsing:** Before initial use and between samples, rinse the probe thoroughly with deionized or distilled water to remove any contaminants or storage solution.
4. **Calibration:** Refer to your benchtop meter's instruction manual for detailed calibration procedures. It is crucial to calibrate the probe regularly using appropriate conductivity standards for accurate measurements.

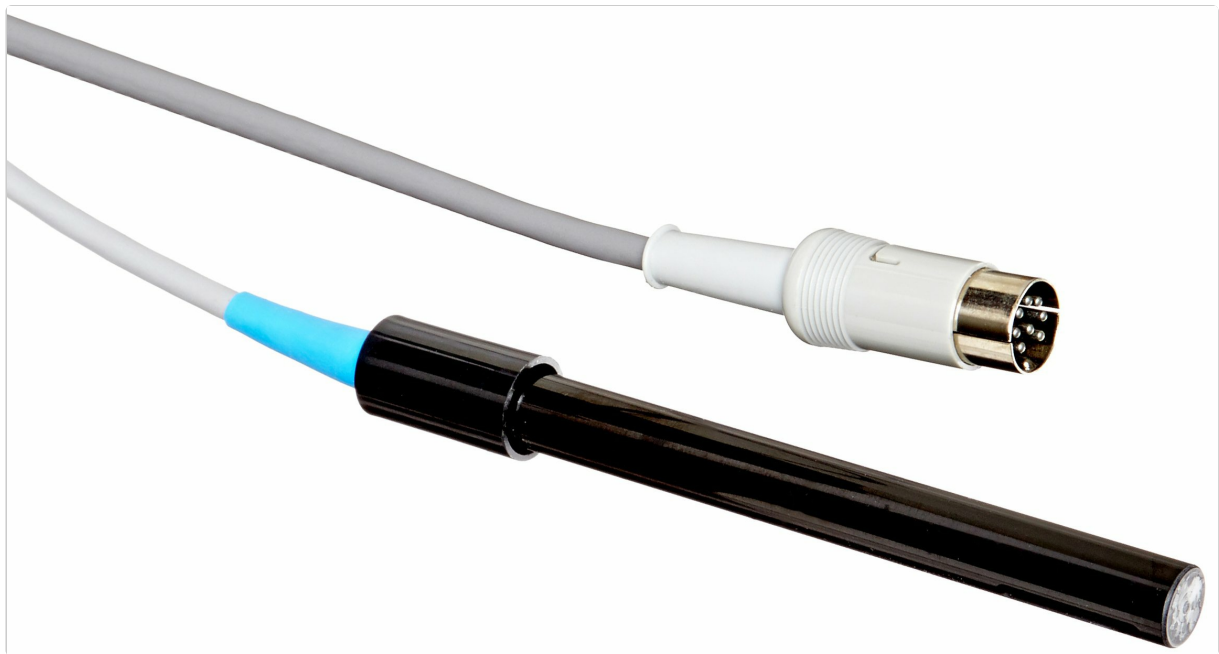


Image 1: Oakton WD-35608-90 Conductivity Probe. This image shows the epoxy body probe with its cable and connector, ready for attachment to a compatible meter.

3. Operating Instructions

Follow these steps for accurate conductivity measurements:

1. **Prepare Sample:** Ensure your sample is at a stable temperature. Temperature compensation is critical for accurate conductivity readings.
2. **Immerse Probe:** Submerge the tip of the conductivity probe into the sample solution. Ensure that the entire 4-cell sensor area is fully immersed and free of air bubbles. Gently agitate the probe to dislodge any trapped bubbles.
3. **Stabilize Reading:** Allow sufficient time for the reading on your benchtop meter to stabilize. This typically takes a few seconds.
4. **Record Measurement:** Once the reading is stable, record the conductivity value displayed on the meter.
5. **Rinse After Use:** After each measurement, rinse the probe thoroughly with deionized or distilled water to prevent cross-contamination and residue buildup.

4. Maintenance

Proper maintenance ensures the longevity and accuracy of your conductivity probe.

- **Cleaning:** Regularly clean the probe's epoxy body and cell electrodes. For general cleaning, use a soft cloth or brush with mild detergent and rinse thoroughly with deionized water. For stubborn deposits, consult your meter's manual or Oakton support for specific cleaning solutions.
- **Storage:** When not in use, store the probe in its protective cap, preferably with a small amount of deionized water or a recommended storage solution to keep the electrodes hydrated. Do not allow the probe to dry out completely for extended periods.
- **Inspection:** Periodically inspect the probe cable and connector for any signs of wear or damage.

5. Troubleshooting

If you encounter issues with your conductivity probe, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate Readings	Probe not calibrated; dirty electrodes; air bubbles in cell; incorrect temperature compensation.	Calibrate probe with fresh standards; clean electrodes; remove air bubbles; ensure correct temperature setting on meter.
No Reading / Erratic Readings	Loose connection; damaged cable/probe; dry electrodes.	Check probe connection; inspect cable for damage; rehydrate electrodes in deionized water. If problem persists, contact support.
Slow Response Time	Dirty electrodes; aged probe.	Clean electrodes thoroughly. If probe is old, consider replacement.

6. Specifications

- **Model Number:** WD-35608-90
- **Cell Constant (K):** 0.1
- **Cell Type:** 4-cell
- **Body Material:** Epoxy
- **Compatibility:** Designed for use with compatible benchtop meters (e.g., Oakton CON 2700)
- **Item Weight:** 7.2 ounces
- **Package Dimensions:** 10.6 x 4 x 2.1 inches
- **Manufacturer:** Thermo Scientific

7. Warranty and Support

For information regarding product warranty, technical support, or service, please refer to the documentation provided with your original purchase or visit the official Oakton Instruments website. Contact details for customer service are typically available on the manufacturer's website.