

# CONDUCTIVITY PROBE INSTRUCTIONS

## SPECIFICATIONS

Glass diameter: 0.472 inches (12 mm)  
Glass length: 4.75 inches (120 mm)  
Weight: 3.1 ounces (88 grams)  
Cable length: 72 inches (183 cm)  
Range: 0.05 micromhos to 200,000 micromhos  
Constant K factor: 1  
Temperature compensation: Automatic with internal thermistor  
Solution contact construction: Glass and Platinum (guard — acrylic with rubber O-rings)

## FEATURES

- Small cell sample volume, only 30 milliliters are required, allow analysis of semimicro samples and expensive specimens.
- Probe designed so that the platinum electrodes may be easily accessed for cleaning, examination or replating.
- Probe with a plastic guard to help prevent breakage.
- Close tolerance cell construction to control the K factor.
- Small glass mass cell designed to reduce electrical leakage paths and eliminate extraneous readings.
- Probe with a computer-designed shape to eliminate error-causing air bubbles.

## RESULTS

All platinum and glass construction providing vastly superior results when compared to plastic probes. Plastic probes leach contaminants/mold released into samples and develop micro fractures which trap materials and contribute to cross sample

contamination. Plastic probes also entrap air bubbles, obscure viewing the sensing element and require a greater sample volume.

## OPERATION

Do not use the acrylic guard for critical analysis, research analysis, or when measuring extremely pure water. Remove the guard by sliding it down and off the glass probe. (A new probe may require a moderate amount of force to slide it off.) Use the guard for routine quality control, when critical analysis is not required, and for storage. The guard reduces the sensitivity of the probe by limiting the electrical field measurement.

## BE CONSISTENT

If you standardize using a known calibration solution with the guard on, then measurements must be made with the guard on.

If you standardize with the guard off, then measurements must be made with the guard off.

## CLEANUP AND STORAGE

Always rinse the probe after using with deionized/distilled water and replace the acrylic guard before storing. Sample solutions that are allowed to dry on the probe will eventually block out active sites on the platinum electrodes.

## CONDUCTIVITY PROBE STORAGE SOLUTION

Redi-Stor™ is the ideal solution for storing conductivity probes. It preserves probe's cleanliness, it eliminates growths found when storing in only water, and it maintains the probe for immediate use with no conditioning. Cat. No. 4170 Redi-Stor™ Probe Storage Solution 16-ounce bottle.

## WARRANTY OR SERVICE

For warranty or service contact:

## CONTROL COMPANY

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Control Company is ISO 9001 Quality-Certified by DNV and ISO 17025 accredited as a Calibration Laboratory by A2LA

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