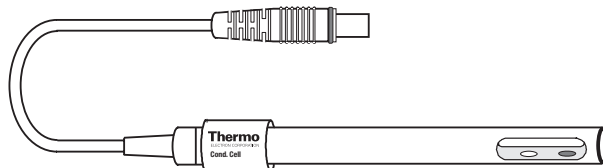


DuraProbe™ Conductivity Cells

Instruction Sheet

013005D and 013010D

DuraProbe Conductivity Cells 013005D and 013010D are epoxy, with a cell constant of 0.475 cm^{-1} . They are intended for general field or laboratory use.



Calibration

Periodic calibration in an Orion Conductivity/TDS Standard is recommended. Choose the standard, which is closest to the expected sample value. Calibration frequency depends on sample and measurement conditions. Orion DuraProbe Conductivity Cells require less frequent calibration because the 4-electrode design compensates for the effects of electrode contamination.

Probe Specifications, Service and Use

Specifications are for cell only. See your meter instruction manual for additional service and use instructions.

Orion 013005D and 013010D

Body Material	Epoxy
Electrode Type	4 - cell
Electrode Material	Graphite
Nominal Cell Constant	0.475 cm^{-1}
Connector	8 pin DIN (male)
Conductivity Range	$1 \mu\text{S/cm}$ to 200 mS/cm
Temperature Range	- 5 to $100 \text{ }^\circ\text{C}$
Auto. Temp Comp	Yes
Approx. Fill Volume	N/A
Cable Lengths	013005D - 1.5 meters 013010D - 3 meters

Cleaning

Contaminant	Cleaning Solution	Recommended Time
Water soluble contaminants	Rinse with DI water	No Limit
Lubricants, oil	Warm water and liquid household detergent	No Limit
	Ethanol or acetone	5 min. max
Lime or hydroxide coating	10% Acetic or Hydrochloric acid	No Limit

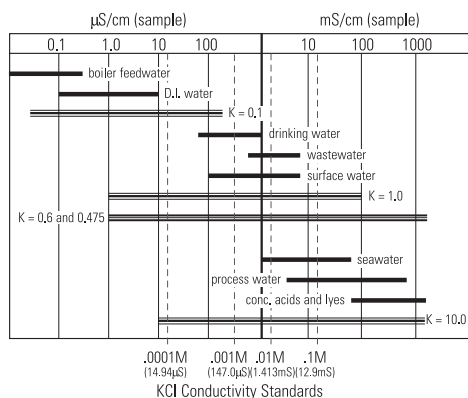
Rinse off any cleaning agents from cells with copious amounts of water. If contaminants cannot be removed by the above cleaning methods, concentrated acid (such as nitric or acetic) may be used with care, and for limited amounts of time. It is recommended that the cell be recalibrated after cleaning.

Storage

For overnight or longer, conductivity cells should be stored clean and dry. Storage in water is acceptable while in use.

DuraProbe™ Conductivity Cells Instruction Sheet

Typical Operating Ranges of Conductivity Cells



Legend

Conventional 2-Electrode Cells

DuraProbe 4-Electrode Cells

Chart represents general guidelines for choosing a cell for your application. Performance characteristics of some models may vary. See individual cell specifications, or call Thermo Electron Technical Service at 800.225.1480.

Ordering Information

Orion	Description
011006	Conductivity Standard 12.9 mS, five 60 mL bottles
011007	Conductivity Standard 1413 μS, five 60 mL bottles
011008	Conductivity Standard 100 μS, five 60 mL bottles
015000	Orion 150 Advanced Benchtop Conductivity Meter, 110V, and Cell
015002	Orion 150 Advanced Benchtop Conductivity Meter Only
014500	Orion 145 Basic Benchtop Conductivity Meter, 110V, and Cell
014502	Orion 145 Basic Benchtop Conductivity Meter Only
012500	Orion 125 Advanced Portable Conductivity Meter, w/ Cell
012502	Orion 125 Advanced Portable Conductivity Meter Only
011500	Orion 115 Basic Portable Conductivity Meter, w/ Cell
011502	Orion 115 Basic Portable Conductivity Meter Only
011510	2-Cell epoxy/graphite, K=1.0, 3M cable, 8 pin DIN
013005D	Duraprobe 4 Electrode Cond. Cell, Epoxy/Graphite, 1.5 M Cable, 8 pin DIN
013010D	Duraprobe 4 Electrode Cond. Cell, Epoxy/Graphite, 3 M Cable, 8 pin DIN
013016D	2-Cell Stainless Steel for ultrapure water, K=0.1, 1M cable, 8 pin DIN
011220	NIST Traceable Calibration Resistors with 8 pin DIN connectors
013045	Protective Sleeve, Stainless Steel, for Epoxy/Graphite and other Selected Conductivity and Dissolved Oxygen electrodes.
018020D	Conductivity Cell for conc. samples, K=10, Pt/Glass 1 M Cable, 8 pin DIN

For additional product information, see the latest version of the Thermo Orion Laboratory Products Catalog.

Environmental Instruments

Water Analysis

For updated contact information, visit www.thermo.com

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