



## Orion Star Lab Electrodes

### Orion Combination Fluoride Electrode

Measure free fluoride ions in aqueous solutions quickly, simply, accurately, and economically with Thermo Scientific Orion Fluoride Electrodes.

9609BNWP is a combination electrode with a Sure-Flow junction that allows easy cleaning. When conventional electrode junctions clog, the Sure-Flow junction can be opened and flushed clean simply by pressing the cap.

The measurement of fluoride in drinking water using an ion selective electrode is an approved ASTM method: ASTM D 1179 A separate reference electrode is unnecessary with the combination fluoride electrode, making it convenient to use with small sample volumes.



### Specification

Description	Fluoride Ionplus Sure-Flow Solid State Combination
Connector Types	Waterproof BNC
Diameter Body	13mm
Length	110mm
Filling Solution Type	900061
Material	Epoxy
For Use With	ISE Meters
Type	Combination Ion Selective Electrode
Parameter	Combination Ion Selective Electrode
Junction	Free-flowing Sure-Flow junction assures stable, drift-free potentials
Length Cable	1m
Temperature Operating	0°C to 80°C (Continuous), 80°C to 100°C (Intermittent)
Measurement Range	1 x 10 <sup>-6</sup> M to saturated 0.02 ppm to saturated
Refillable	Yes



## Orion ROSS Glass Sure-Flow pH Electrode

Measure general pH samples as well as viscous or colloidal samples with the free-flowing sleeve junction design of the Thermo Scientific Orion 8172BNWP ROSS Sure-Flow pH Electrode.

This general-purpose pH electrode offers superior performance for dirty, difficult samples such as soils, sludges, colloids, viscous materials and organics. Junction cleans easily between measurements; pressing down on the cap allows filling solution to flow through the junction carries away any contamination that may interfere with measurement.



### Specification

Description	Orion ROSS Sure-Flow pH Electrode
Type	Combination pH Electrode, glass body
Connector Type	BNC waterproof connector
Diameter Cap	16mm
Junction	Sure-Flow
pH Range	0 to 14
Precision	0.01
For Use With	Standard pH meters, BNC connector
Temperature Operating	0°C to 100°C
Filling Solution Type	3M KCl (810007)
Internal Reference	ROSS





## Orion DuraProbe 4-Cell Conductivity Probe

These probes are durable and extremely accurate over a wide range of conditions. The 4-Cell design compensates for electrode fouling, cable length, connector resistance, polarization errors, and fringe field interference errors. These conductivity probes are ideal for high and standard conductivity samples and difficult samples such as wastewater, runoff water and mud.

DuraProbe 4-cell conductivity probes are compatible with Thermo Scientific Orion Star and Versa Star Pro™ bench and portable conductivity meters. Paired together the instruments can be used to generate accurate, repeatable readings for conductivity, resistivity, TDS, and salinity.



### Specifications Example

Cell Constant	0.475 cm <sup>-1</sup>
For Use With	Star A212
Connector Type	8-pin Mini-DIN
Diameter Body	15mm
Length Cable	1.5m
Material	Epoxy-Body
Min. Immersion	35mm
Probe	Conductivity probe with built-in ATC temperature sensor
Measurement Rnges	1 μS/cm to 200 mS/cm
Storage Method	Store in distilled or deionized water between measurements; for overnight or long-term storage, thoroughly rinse and store dry





## Orion Automatic Temperature Compensation (ATC) Probe

Automatically correct pH measurements for variation in electrode slope due to temperature change using Thermo Scientific™ Orion™ Stainless-Steel Automatic Temperature Compensation (ATC) Probes.

### Specifications

Description	ATC probe with Stainless Steel Body
Material	Stainless Steel
Accuracy	±2°C
Diameter Body	6mm
Length	120mm
Temperature Operating	0°C to 100°C
Storage Requirements	Store in air
Connector Type	MiniDIN



### Ordering Information

9609BNWP	Orion Combination Fluoride Electrode
8172BNWP	Orion ROSS Glass Sure-Flow pH Electrode
013005MD	Orion DuraProbe 4-Cell Conductivity Probe
927007MD	Orion Stainless-Steel Automatic Temperature Compensation (ATC) Probe
8102BNUWP	Orion ROSS Ultra pH Electrode

