

The Thermo Scientific Orion 3-Star Plus conductivity meters work for a variety of applications and liquid purities.

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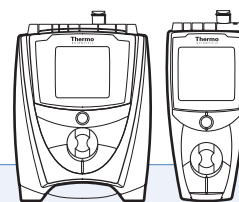
Thermo Scientific Orion 3-Star Plus Conductivity Meters



Features and Benefits

- Simultaneous display of conductivity, resistivity, TDS or salinity and temperature measurements on the backlit LCD
- The Thermo Scientific Orion SMART STABILITY™ and SMART AVERAGING™ functions for automatically optimized accuracy, precision and response time
- Meet all U.S. Pharmacopeia (USP) requirements
- Accept cell constants from 0.001 to 199.9 cm⁻¹
- Compatible with 2-electrode and 4-electrode conductivity cells
- Temperature calibration capability
- Conductivity / TDS / salinity / resistivity calibration of up to 5 points
- Reading reference temperatures at 5 °C, 10 °C, 15 °C, 20 °C or 25 °C
- Storage of up to 10 individually password-protected methods for easy retrieval of operation procedures
- Datalog up to 1000 points with time and date stamp
- RS232 port for easy data downloading and software updates
- Benchtop units can control an autosampler and the 096010 stirrer probe (*each sold separately*)
- Benchtop units are splashproof with an IP54-rated housing and include a universal power supply
- Portable units are waterproof with an IP67-rated housing and run for over 2,000 hours on four AA batteries
- 3 year meter warranty

Thermo Scientific Orion 3-Star Plus Conductivity Meters



Conductivity	Range	0.000 to 3000 mS/cm, auto resolution with cell constant dependence
	Resolution	4 significant digits down to 0.001 μ S/cm, cell constant dependent
	Relative Accuracy	0.5% \pm 1 digit or 0.01 μ S/cm, whichever is greater
	Cell Constants	0.001 to 199.9
Resistivity	Range	0.0001 to 100 Megohm
	Resolution	Automatic
	Relative Accuracy	0.5% \pm 1 digit
Salinity	Range	0.1 to 80.0 ppt NaCl equivalent, 0.1 to 42 ppt practical salinity
	Resolution	0.1
	Relative Accuracy	\pm 0.1 \pm 1 digit
TDS	Range	0 to 19999
	Resolution	1 mg/L
	Relative Accuracy	\pm 0.5% \pm 1 digit
Temperature	Range	- 5 to 105 $^{\circ}$ C
	Resolution	0.1 up to 99.9 $^{\circ}$ C, 1.0 over 99.9 $^{\circ}$ C
	Relative Accuracy	\pm 0.1 $^{\circ}$ C

Meters Only

Cat. No.	Package
1114000	Includes benchtop meter, universal power and user guide
1214000	Includes portable meter, batteries and user guide

Benchtop Meter Kits

Cat. No. / Application	Sensor (s)	Accessories and Solutions
1114001 / Fresh Water Wastewater	• 013005MD DuraProbe conductivity cell, K = 0.475, 1 μ S/cm to 200 mS/cm	<ul style="list-style-type: none"> • 1413 μS/cm conductivity standard (5 x 60 mL bottles) • Swing arm electrode stand
1114002 / Ultra Pure Water	• 013016MD Conductivity cell, K = 0.1, includes flow cell, 0.01 μ S/cm to 300 μ S/cm	<ul style="list-style-type: none"> • 100 μS/cm conductivity standard (5 x 60 mL bottles) • Swing arm electrode stand
1114003 / Ultra Pure Water	• 013016MD Conductivity cell, K = 0.1, includes flow cell, 0.01 μ S/cm to 300 μ S/cm	<ul style="list-style-type: none"> • 100 μS/cm conductivity standard (5 x 60 mL bottles) • Conductivity calibration resistor kit • Star Navigator 21 software with RS232 computer cable • Swing arm electrode stand

Portable Meter Kits

Cat. No. / Application	Sensor (s)	Accessories and Solutions
1214001 / Fresh Water Wastewater	• 013005MD DuraProbe conductivity cell, K = 0.475, 1 μ S/cm to 200 mS/cm	<ul style="list-style-type: none"> • 1413 μS/cm conductivity standard (10 x 15 mL pouches) • Hard field case
1214002 / Ultra Pure Water	• 013016MD Conductivity cell, K = 0.1, includes flow cell, 0.01 μ S/cm to 300 μ S/cm	<ul style="list-style-type: none"> • 100 μS/cm conductivity standard (5 x 60 mL bottles)
1214003 / Fresh Water Wastewater	• 013610MD Conductivity cell, K = 0.55, includes 3 meter cable, 10 μ S/cm to 200 mS/cm	<ul style="list-style-type: none"> • 1413 μS/cm conductivity standard (10 x 15 mL pouches) • Hard field case
1214004 / Ultra Pure Water	• 013016MD Conductivity cell, K = 0.1, includes flow cell, 0.01 μ S/cm to 300 μ S/cm	<ul style="list-style-type: none"> • 100 μS/cm conductivity standard (5 x 60 mL bottles) • Hard field case
1214501 / Fresh Water Wastewater	• 013005MD DuraProbe conductivity cell, K = 0.475, 1 μ S/cm to 200 mS/cm	<ul style="list-style-type: none"> • 1413 μS/cm conductivity standard (10 x 15 mL pouches) • Soft field case
1214503 / Fresh Water Wastewater	• 013610MD DuraProbe conductivity cell, K = 0.55, includes 3 meter cable, 10 μ S/cm to 200 mS/cm	<ul style="list-style-type: none"> • 1413 μS/cm conductivity standard (10 x 15 mL pouches) • Soft field case
1214504 / Ultra Pure Water	• 013016MD Conductivity cell, K = 0.1, includes flow cell, 0.01 μ S/cm to 300 μ S/cm	<ul style="list-style-type: none"> • 100 μS/cm conductivity standard (5 x 60 mL bottles) • Soft field case
1214101 / Fresh Water Wastewater	• 013005MD DuraProbe conductivity cell, K = 0.475, 1 μ S/cm to 200 mS/cm	—

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