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

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 μS/cm, cell constant dependent
	Relative Accuracy	0.5% ± 1 digit or 0.01 µS/cm, whichever is greater
	Cell Constants	0.001 to 199.9
Resistivity	Range	0.0001 to 100 Megohm
	Resolution	Automatic
	Relative Accuracy	0.5 % ± 1 digit
Salinity	Range	0.1 to 80.0 ppt NaCl equivalent, 0.1 to 42 ppt practical salinity
	Resolution	0.1
	Relative Accuracy	± 0.1 ± 1 digit
TDS	Range	0 to 19999
	Resolution	1 mg/L
	Relative Accuracy	± 0.5 % ± 1 digit
Temperature	Range	- 5 to 105 °C
	Resolution	0.1 up to 99.9 °C, 1.0 over 99.9 °C
	Relative Accuracy	± 0.1 °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 μS/cm to 200 mS/cm	 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 µS/cm to 300 µS/cm	 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 µS/cm to 300 µS/cm	 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 µS/cm to 200 mS/cm	 1413 µS/cm conductivity standard (10 x 15 mL pouches) Hard field case 	
1214002 / <i>Ultra Pure Water</i>	• 013016MD Conductivity cell, K = 0.1, includes flow cell, 0.01 µS/cm to 300 µS/cm	• 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 µS/cm to 200 mS/cm)	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 μS/cm to 300 μS/cm	 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 μS/cm to 200 mS/cm	 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 µS/cm to 200 mS/cm	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 µS/cm to 300 µS/cm	 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 µS/cm to 200 mS/cm 	_	

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