Thermo Scientific Orion Star A222

Advanced conductivity portable meter

The Thermo Scientific™ Orion™ Star A222 Conductivity Portable Meter makes necessary testing easier. Its durability and dependability make it a great choice for samples every day, anywhere.







Get the readings that you need where you need them with the Thermo Scientific Orion Star A222 Conductivity Portable Meter. The large, backlit graphic LCD display shows conductivity/TDS/salinity/resistivity and temperature along with electrode status, time, date and calibration information.

Features and Benefits

- Easy meter operation assured with on-screen text prompts, menu-specific function keys and a multi-language interface for English, Spanish, French, Italian, German and Chinese
- Don't miss a reading—AUTO-READ™ locks in the stable reading on your screen and ready indicator alerts when continuous readings are stable
- Automatic or manual conductivity calibration and auto-ranging measurements for high accuracy across all conductivity ranges

- Selectable reference temperatures of 15, 20 or 25 °C with linear or non-linear curve options for temperature compensated conductivity readings
- Non-volatile memory holds up to 1000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary Orion Star Com computer software
- Four AA batteries (included) provide over 800 hours of operation or purchase the universal power adapter (sold separately)
- Perfectly portable, waterproof and protected to take anywhere with a IP67-rated housing
- 3 year meter replacement warranty



Thermo Scientific Orion Star A222 Conductivity Portable Meter

	Specifications
Conductivity	Range: 0.001 μS to 3000 mS
	Resolution: 0.001 µS minimum, auto ranging,
	up to 4 significant digits
	Relative Accuracy:
	0.5 % of reading ± 1 digit $> 3 \mu S$,
	$0.5~\%$ of reading $\pm 0.01~\mu S \le 3~\mu S$
	Reference Temperature: 15, 20, 25 °C
	Temperature Compensation: Linear
	(0 to 10.0 %/°C), nonlinear nLFn, off
	Compatible Cell Constants: 0.001 to 199.9
	Calibration Points: Up to 5 points
Resistivity	Range: 2 ohm to 100 meg-ohm
	Resolution: 1 ohm or 0.1 meg-ohm,
	auto-ranging
	Relative Accuracy: 0.5 % reading ±1 digit
Salinity	Type: Practical salinity
	Range: 0.06 to 80.00 psu
	Resolution: 0.01 psu
	Relative Accuracy: 0.5 % reading ±1 digit
TDS	Range: 0.001 to 200.0 ppt
	Resolution: 0.001 ppt minimum, auto ranging,
	up to 4 significant digits
	Relative Accuracy: ±0.5 % reading ±1 digit
	TDS Factor Range: Linear 0.02 to 9.99
Temperature	Range: -5 to 105 °C, 23 to 221 °F
	Resolution: 0.1 °C, 0.1 °F
	Relative Accuracy: ±0.1 °C, ±0.1 °F
	Offset Calibration: 1 point
Datalogging	Memory: 1000 with time and date stamp
	Log Function: Manual, Automatic
	with AUTO-READ
Inputs	Conductivity Probe with Built-in
•	Temperature: 8-pin mini-DIN
Output	RS232, USB
Power	AC Adapter: Optional—universal,
	•
	100-240 VAC
	100-240 VAC Battery Power: Included—4 AAs

Meter Ordering Information	
Part No.	Description
STARA2220	Orion Star A222 Conductivity Portable Meter - Four AA batteries (installed) - Printed quick start guide and literature CD - USB computer cable
STARA2225	Orion Star A222 Conductivity
	Portable Meter Kit - 013010MD Orion DuraProbe conductivity probe with 3 m cable, K=0.475 - 01100710 Orion 1413 μS conductivity standard pouches - 911110 Orion rinse solution pouches - Protective armor with electrode holder - Hard-sided field case - Four AA batteries (installed) - Printed quick start guide and literature CD - USB computer cable

Accessories Ordering Information		
Part No.	Description	
STARA-CS	Orion Star A series portable meter hard-sided	
404000	field case	
1210005	Orion Star A series portable meter soft-sided	
	field case	
STARA-AR	Orion Star A series portable meter armor with	
	pH electrode holder, conductivity and DO probe	
	holder, stand and adjustable hand-strap	
STARA-ESCD	Orion conductivity and DO probe holder for	
	portable Star A series meter armor	
013005MD	Orion DuraProbe conductivity probe with	
	1.5 m cable, 4-cell, K=0.475	
013010MD	Orion DuraProbe conductivity probe with	
	3 m cable, 4-cell, K=0.475	
013020MD	Orion DuraProbe conductivity probe with	
	6 m cable, 4-cell, K=0.475	
013025MD	Orion DuraProbe conductivity probe with	
	10 m cable, 4-cell, K=0.475	
1010003	Universal power adapter, 100-240 V, 50/60 Hz	
011008	Orion 100 µS conductivity std, 5 x 60 mL	
01100710	Orion 1413 µS conductivity std pouches,	
	10 pack	
01100610	Orion 12.9 mS conductivity std pouches,	
	10 pack	
911110	Orion rinse solution pouches, 10 pack	
1010001	Orion conductivity calibration resistor kit	
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For more information, contact your local Thermo Scientific products dealer or call our customer and technical service experts at 1-800-225-1480 (for the US and Canada) or visit www.thermoscientific.com/water.



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STARA-CS

STARA-AR

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