

Thermo Scientific Orion Star A322 Conductivity Portable Meter

The Thermo Scientific Orion Star A322 Conductivity Portable Meter is the top choice for testing samples anywhere. It is rugged and dependable, making it ideal for every sample, every day, everywhere.



The Thermo Scientific Orion Star A322 Conductivity Portable Meter is the top choice for advanced measurements on location. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows conductivity/TDS/salinity resistivity and temperature along with electrode status, time, date, sample ID, user ID and calibration points. Advanced features such as stability and averaging options provide additional options allowing for laboratory accuracy everywhere you need it.

Features and Benefits

- Anyone can use this meter with its plain language screen prompts, soft keys that update for easy selection and a multilanguage interface that supports English, Spanish, French, Italian, German and Chinese
- Don't miss a reading – AUTO-READ™ locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals
- Selectable cell constant allows for use with 2- or 4-cell conductivity cells
- For advanced accuracy, selectable reading reference temperatures of 5, 10, 15, 20 or 25 °C with linear, non-linear, nLFu or EP curve options
- Choice of practical salinity or natural sea water curves for salinity readings
- Linear or ISO/EN 27888 curves for TDS
- Non-volatile memory holds up to 5000 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 data analysis software
- Four AA batteries (included) provide over 800 hours of operation or purchase the universal power adapter (sold separately) to use AC power
- Perfectly portable, waterproof and protected to take anywhere with a IP67-rated housing
- 3 year meter replacement warranty

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Specifications



Conductivity	Range	0.001 μ S to 3000 mS
	Resolution	0.001 μ S minimum; 4 significant figures minimum
	Relative Accuracy	0.5 % reading \pm 1 digit
	Reference Temperature	5, 10, 15, 20, 25 $^{\circ}$ C
	Temperature Compensation	Linear (0 to 10.0 %/ $^{\circ}$ C), nLn, nLFu, EP
	Compatible Cell Constants	0.001 to 199.9
	Calibration Points	Up to 5 points
	Calibration Editing	Yes
	Resistivity	Range
Resolution		2 ohms-cm
Relative Accuracy		0.5 % reading \pm 1 digit
Salinity	Type	Practical salinity or natural sea water
	Range	0.01 to 80.0 ppt NaCl equivalent; 0.01 to 42 ppt practical salinity
	Resolution	0.01
	Relative Accuracy	\pm 0.1
TDS	Range	0 to 200 ppt
	Resolution	4 significant digits
	Relative Accuracy	\pm 0.5 % reading \pm 1 digit
	TDS Factor Range	Linear 0.01 to 10.00
Temperature	Range	-5 to 105 $^{\circ}$ C, 23 to 221 $^{\circ}$ F
	Resolution	0.1
	Relative Accuracy	\pm 0.1
	Offset Calibration	1 point
Datalogging	Memory	5000 with time and date stamp
	Log Function	Manual, ready (includes AUTO-READ™), timed
	Log Edit	Delete individual points, group of points or all
Inputs	Conductivity with Temperature Probe	8-pin mini-DIN
Output		RS232, USB
Power	AC Adapter	Optional – universal, 100-240 VAC
	Battery Power	Included – 4 AAs
	Battery Life	800 hrs

Ordering Information

Cat. No.	Description
STARA3220	Orion STAR A322 Conductivity Portable Meter - Four AA batteries (installed)
STARA3225	Orion STAR A322 Conductivity Portable Meter Kit - 013010MD Orion DuraProbe conductivity cell with 3m cable, K=0.475 - 01100710 conductivity standard pouches, 1413 μ S, pack of 10 - 911110 rinse solution, pack of 10 - Protective armor with electrode holder - Hard carrying case - Four AA batteries (installed)
Accessories	
STARA-CS	Hard carrying case for Orion Star A-series portable meters
1210005	Soft carrying case for Orion Star, Star Plus and Star A-series portable meters
STARA-AR	Armor for Orion Star A-series portable meters, includes electrode holders for pH, conductivity and DO probes
STARA-ESCD	Conductivity and DO probe holder for Orion Star A-series armor
STARA-ESPH	pH electrode holder for Orion Star A-series armor
013005MD	Orion DuraProbe conductivity cell with 1.5m cable, 4-cell, K=0.475
013010MD	Orion DuraProbe conductivity cell with 3m cable, 4-cell, K=0.475
013020MD	Orion DuraProbe conductivity cell with 6m cable, 4-cell, K=0.475
013025MD	Orion DuraProbe conductivity cell with 10m cable, 4-cell, K=0.475
1010003	Optional universal power adapter, 100-240 V, 50/60 Hz
011008	Orion conductivity standard, 100 μ S/cm, 5x60 mL bottles
01100710	Orion conductivity standard pouches, 1413 μ S/cm, 10/pk
01100610	Orion conductivity standard pouches, 12.9 mS/cm, 10/pk
911110	Orion rinse solution pouches, 10/pk
1010001	Orion conductivity calibration resistor kit

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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