Product Specifications

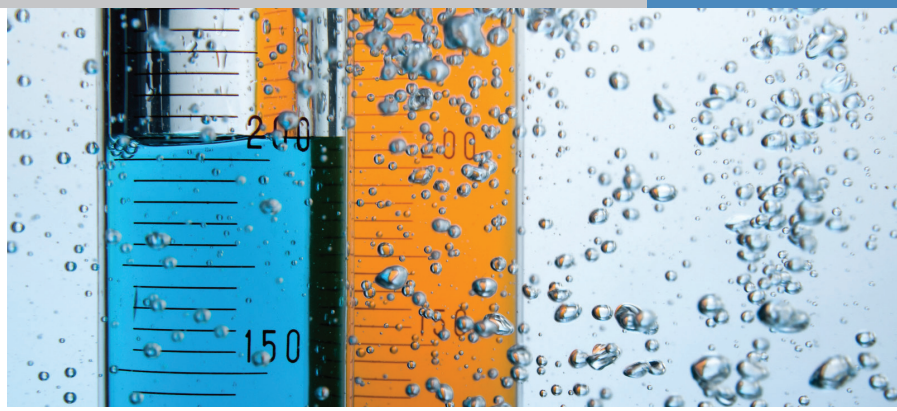
The Thermo Scientific Orion Star A212 Conductivity Benchtop Meter works for any lab or application. Its durability and dependability make it ideal for every sample, every day.

Thermo Scientific Orion Star A212 Conductivity Benchtop Meter









The Thermo Scientific Orion Star A212 Conductivity Benchtop Meter is the ideal choice for any lab. 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 time, date, sample ID, user ID and calibration information. For advanced users, features such as stability and averaging choices provide additional options.

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 accurate results, 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 2000 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
- Mix samples without a stir plate with direct control of the Orion Star stirrer probe (096019, sold separately)
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Works with almost every AC power source with the included universal power adapter, or use four AA batteries (sold separately) to run the meter on DC power
- IP54-rated housing handles splashes and is wall-mountable if table space is a problem
- 3 year meter replacement warranty

Thermo Scientific Orion Star A212 Conductivity Benchtop Meter

Specifications

Conductivity	**Range**	0.001 µS to 3000 mS
	Resolution	0.001 µS minimum; 4 significant figures minimum
	Relative Accuracy	0.5 % reading ±1 digit
	Reference Temperature	5, 10, 15, 20, 25 °C
	Temperature Compensation	Linear (0 to 10.0 %/°C), nLn, nLFu, EP
	Compatible Cell Constants	0.001 to 199.9
	Calibration Points	Up to 5 points
	Calibration Editing	Yes
Resistivity	**Range**	2 ohm to 100 meg-ohm
	Resolution	2 ohms-cm
	Relative Accuracy	0.5 % reading ±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	±0.1
TDS	**Range**	0 to 200 ppt
	Resolution	4 significant digits
	Relative Accuracy	±0.5 % reading ±1 digit
	TDS Factor Range	Linear, 0.01 to 10.00
Temperature	**Range**	-5 to 105 °C, 23 to 221 °F
	Resolution	0.1
	Relative Accuracy	±0.1
	Offset Calibration	1 point
Datalogging	**Number of Points**	2000 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**	Included – universal, 100-240 VAC
	Battery Power	Optional – 4 AAs
	Battery Life	800 hrs

Ordering Information

Cat. No.	Description
STARA2120	**Orion STAR A212 Conductivity Benchtop Meter** - Electrode arm with redesigned holder - Universal power adapter
STARA2125	**Orion STAR A212 Conductivity Benchtop Meter Kit** - 013005MD Orion DuraProbe conductivity probe, K=0.475 - 011007 conductivity standard, 1413 µS, 5x60 mL - Electrode arm with redesigned holder - Universal power adapter
STARA2126	**Orion STAR A212 Conductivity Benchtop Meter Kit for Ultrapure Water** - 013016MD Orion conductivity probe with flow-through cell, K=0.1 - 011008 conductivity standard, 100 µS, 5x60 mL - Electrode arm with redesigned holder - Universal power adapter

Accessories

STARA-BEA	Benchtop electrode arm for Orion Star A-series meters
STARA-HB	Freestanding base for use with Orion Star A-series benchtop electrode arm
013005MD	Orion DuraProbe conductivity probe, 4-cell, K=0.475
013016MD	Orion 2-electrode conductivity probe with flow cell, K=0.1
011008	Orion conductivity standard, 100 µS/cm, 5x60 mL bottles
011007	Orion conductivity standard, 1413 µS/cm, 5x60 mL bottles
011006	Orion conductivity standard, 12.9 mS/cm, 5x60 mL bottles
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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