



Thermo Scientific Orion Star A212 Conductivity Benchtop Meter

The Thermo Scientific Orion Star A212 Conductivity Benchtop Meter is the ideal choice to help meet USP requirements. 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 nFLn, non-linear nFLu, or EP (USP) curve options
- Choice of practical salinity or natural sea water curves for salinity readings
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Stores up to 10 methods allow for customized procedures to differentiate between tests and/or users
- 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



Product Specifications

CE TUV FCC		
Conductivity	Range	0.001 μ S to 3000 mS
	Resolution	0.001 μ S minimum; 4 significant figures minimum
	Relative Accuracy	\pm 0.5 % of reading \pm 1 digit for conductivity > 3 μ S \pm 0.5 % of reading \pm 0.01 μ S for conductivity \leq 3 μ S
	Reference Temperature	5, 10, 15, 20, 25 $^{\circ}$ C
	Temperature Compensation	Linear (0 to 10.0 $^{\circ}$ C), non-linear nFLn & nFLu, EP (USP) or off
	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	1 ohm-cm or 0.1 meg-ohm, auto-ranging
	Relative Accuracy	0.5 % reading \pm 1 digit
Salinity	Type	Practical salinity or natural sea water
	Range	0.06 to 80 psu 0.05 to 42 ppt sea water
	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, 0.02 to 9.99
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	Number of Datalogs	2000 with time and date stamp
	Log Function	Manual, ready (includes AUTO-READ [™]), timed
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

Meter 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 μ S, 5 x 60 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 μ S, 5 x 60 mL - Electrode arm with redesigned holder - Universal power adapter

Accessories

Cat. No.	Description
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 μ S/cm, 5 x 60 mL bottles
011007	Orion conductivity standard, 1413 μ S/cm, 5 x 60 mL bottles
011006	Orion conductivity standard, 12.9 mS/cm, 5 x 60 mL bottles
1010001	Orion conductivity calibration resistor kit



- pH ■
- ISE ■
- ORP ■
- Cond ■
- RDO ■
- DO ■
- Temp ■