

Thermo Scientific Orion Star A212

Advanced conductivity benchtop meter

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.



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 with time, date, sample ID, user ID and calibration info.


Features and Benefits

- Easy meter operation assured with on-screen text prompts, menu-specific function keys and a multi-language interface
- 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
- Automatic or manual conductivity calibration and auto-ranging measurements for high accuracy across all conductivity ranges
- Selectable reference temperatures of 5, 10, 15, 20 or 25 °C with linear, non-linear or EP curve options for temperature compensated conductivity readings
- 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 Orion Star Com computer software
- Stir samples with ease using the meter-controlled Orion Star stirrer probe (Cat. No. 096019)
- Included electrode arm and holder make it easier to maintain and place probes into samples
- Power the meter using the included universal power adapter or four AA batteries (sold separately)
- IP54-rated housing handles splashes and is wall-mountable to save space
- 3 year meter replacement warranty

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Thermo Scientific Orion Star A212 Conductivity Benchtop Meter

Specifications	
Conductivity	Range: 0.001 μ S to 3000 mS Resolution: 0.001 μ S minimum, auto ranging, up to 4 significant digits Relative Accuracy: 0.5 % of reading ± 1 digit > 3 μ S, 0.5 % of reading ± 0.01 μ S \leq 3 μ S Reference Temperature: 5, 10, 15, 20, 25 $^{\circ}$ C Temperature Compensation: Linear (0 to 10.0 %/ $^{\circ}$ C), nonlinear nLFn & nLFu, EP (USP), 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 or 0.1 meg-ohm, auto ranging Relative Accuracy: 0.5 % reading ± 1 digit
Salinity	Type: Practical salinity or natural sea water Range: 0.06 to 80.00 psu, 0.05 to 42.00 ppt Resolution: 0.01 psu, 0.01 ppt 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 $^{\circ}$ C, 23 to 221 $^{\circ}$ F Resolution: 0.1 $^{\circ}$ C, 0.1 $^{\circ}$ F Relative Accuracy: ± 0.1 $^{\circ}$ C, ± 0.1 $^{\circ}$ F Offset Calibration: 1 point
Datalogging	Memory: 2000 with time and date stamp Log Function: Manual, ready (includes AUTO-READ), timed
Inputs	Conductivity Probe with Built-in Temperature: 8-pin mini-DIN
Output	RS232, USB
Power	AC Adapter: Included—universal, 100-240 VAC Battery Power: Optional—4 AAs Battery Life: 800 hrs


 Thermo Fisher Scientific
 Water Analysis Instruments
 Chelmsford, MA USA
 Quality Management System
 Registered to ISO 9001

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Meter Ordering Information

Part No.	Description
STARA2120	Orion Star A212 Conductivity Benchtop Meter - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable
STARA2125	Orion Star A212 Conductivity Benchtop Meter Kit - 013005MD Orion DuraProbe conductivity probe, K=0.475 - Orion 1413 μ S conductivity standard - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable
STARA2126	Orion Star A212 Conductivity Benchtop Meter Kit for Ultrapure Water - 013016MD Orion conductivity probe with flow-through cell, K=0.1 - Orion 100 μ S conductivity standard - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable

Accessories Ordering Information

Part No.	Description
096019	Orion Star stirrer probe
STARA-BEA	Orion Star A series electrode arm, holder and benchtop meter-attachable base plate
STARA-HB	Orion Star A series freestanding base for electrode arm and holder
013005MD	Orion DuraProbe conductivity probe, 4-cell, K=0.475
013016MD	Orion 2-cell conductivity probe with flow cell, K=0.1
011008	Orion 100 μ S conductivity standard, 5 x 60 mL
011007	Orion 1413 μ S conductivity standard, 5 x 60 mL
011006	Orion 12.9 mS conductivity standard, 5 x 60 mL
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.



Redesigned electrode arm and holder



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