

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

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**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 µS, 0.5 % of reading ±0.01 µS ≤ 3 µS 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 Battery Power: Included—4 AAs Battery Life: 800 hrs

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 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



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

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