

Thermo Scientific Orion Star A322

Premium 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 time, date, sample ID, user ID 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, 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 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 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

Thermo
SCIENTIFIC

**Thermo Scientific Orion Star A322
Conductivity Portable 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 \pm 1 digit > 3 μ S, 0.5 % of reading \pm 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 \pm 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 \pm 1 digit
TDS	Range: 0.001 to 200.0 ppt Resolution: 0.001 ppt minimum, auto ranging, up to 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 $^{\circ}$ C, 0.1 $^{\circ}$ F Relative Accuracy: \pm 0.1 $^{\circ}$ C, \pm 0.1 $^{\circ}$ F Offset Calibration: 1 point
Datalogging	Memory: 5000 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: Optional—universal, 100-240 VAC Battery Power: Included—4 AAs Battery Life: 800 hrs

Meter Ordering Information	
Part No.	Description
STARA3220	Orion Star A322 Conductivity Portable Meter - Four AA batteries (installed), literature, PC cable and test certificate
STARA3225	Orion Star A322 Conductivity Portable Meter Standard Kit - 013010MD Orion DuraProbe 4-cell conductivity probe with 3 m cable, K=0.475 - 01100710 Orion 1413 μ S conductivity standard pouches - 911110 Orion rinse solution pouches - Protective meter armor with electrode holder - Hard-sided field case - Four AA batteries (installed), literature, PC cable and test certificate
STARA3226	Orion Star A322 Conductivity Portable Meter Pure Water Kit - 013016MD Orion 2-cell pure water conductivity probe, K=0.1, with flow cell - 011008 Orion 100 μ S conductivity standard - 911110 Orion rinse solution pouches - Protective meter armor with electrode holder - Hard-sided field case - Four AA batteries (installed), literature, PC cable and test certificate

Accessories Ordering Information	
Part No.	Description
STARA-CS	Orion Star A portable hard-sided field case
1210005	Orion Star A portable 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
013010MD	Orion DuraProbe conductivity probe with 3 m cable, 4-cell, K=0.475
1010003	Universal power adapter, 100-240 V, 50/60 Hz
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.



thermoscientific.com/water

© 2016 Thermo Fisher Scientific Inc. All rights reserved.
All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified.



Water and Lab Products

North America
Toll Free: 1-800-225-1480
Tel: 1-978-232-6000
info.water@thermofisher.com

Germany
Tel: (49) 6184-90-6000
info.water.uk@thermofisher.com

India
Tel: (91) 22-4157-8800
wai.asia@thermofisher.com

Japan
Tel: (81) 045-453-9175
wai.asia@thermofisher.com

China
Tel: (86) 21-68654588
wai.asia@thermofisher.com

Singapore
Tel: (65) 6778-6876
wai.asia@thermofisher.com

Australia
Tel: (613) 9757-4300
In Australia: (1300) 735-295
InfoWaterAU@thermofisher.com

S-STARA322-E 0216 RevD

Thermo
SCIENTIFIC

A Thermo Fisher Scientific Brand