

Thermo Scientific Orion Star A325

Premium pH/conductivity portable meter

The Thermo Scientific™ Orion™ Star A325 pH/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 A325 pH/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 one or both pH and conductivity channels with temperature. Additional helpful information includes electrode status, 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
- 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
- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers or manual option for custom buffer values
- Automatic or manual conductivity calibration
- 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 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, IP67-rated waterproof and protected to take anywhere
- 3 year meter replacement warranty



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Thermo Scientific Orion Star A325 pH/Conductivity Portable Meter

Specifications	
pH	Range: -2.000 to 20.000 Resolution: 0.1, 0.01, 0.001 Relative Accuracy: ± 0.002 Calibration Points: Up to 5 Calibration Editing: Yes
mV/RmV	Range: ± 2000.0 mV Relative Accuracy: ± 0.2 mV or ± 0.05 % of reading whichever is greater E_H ORP Mode: Yes
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 $> 3 \mu$ S, 0.5 % of reading $\pm 0.01 \mu$ S $\leq 3 \mu$ S Reference Temp.: 5, 10, 15, 20, 25 °C Temperature Compensation: Linear, 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 Relative Accuracy: 0.5 % reading ± 1 digit
TDS	Range: 0.001 to 200.0 ppt 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: 5000 with time and date stamp Log Function: Manual, ready (includes AUTO-READ), timed
Inputs	pH Electrode: BNC, reference pin Conductivity or ATC Probe: 8-pin mini-DIN
Output	RS232, USB
Power	AC Adapter: Optional—universal, 100-240 VAC Battery Power: Included—4 AAs Battery Life: 800 hrs



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S-STAR325-E 1213 Rev C

Meter Ordering Information

Part No.	Description
STAR3250	Orion Star A325 pH/Conductivity Portable Meter - Four AA batteries (installed) - Printed quick start guide and literature CD - USB computer cable
STAR3255	Orion Star A325 pH/Conductivity Portable Meter Kit - 8107UWMMMD Orion Ultra Triode gel-filled epoxy-body pH/ATC electrode, 3 m cable - 013010MD Orion DuraProbe conductivity probe, 3 m cable - 910410-WA Orion pH 4.01 buffer pouches - 910710 Orion pH 7.00 buffer pouches - 911010 Orion pH 10.01 buffer pouches - 810001 Orion ROSS electrode storage solution, 475 mL - 01100710 Orion 1413 μ S conductivity std pouches - 911110 Orion rinse solution pouches - Protective armor with electrode holders and storage sleeve - Hard-sided field case - Four AA batteries (installed) - Printed quick start guide and literature CD - USB computer cable

Accessories Ordering Information

Part No.	Description
STAR-CS	Orion Star A series portable meter hard-sided field case
STAR-AR	Orion Star A series portable meter armor with pH electrode holder, conductivity and DO probe holder, stand and adjustable hand-strap
STAR-ESPH	Orion pH electrode holder for portable Star A series meter armor
810017	Orion pH electrode storage sleeve for pH electrode holder
STAR-ESCD	Orion conductivity and DO probe holder for portable Star A series meter armor
8107UWMMMD	Orion ROSS Ultra Triode
013010MD	Orion DuraProbe conductivity probe
1010003	Universal power adapter, 100-240 V, 50/60 Hz
910410-WA	Orion pH 4.01 buffer pouches, 10 pack
910710	Orion pH 7.00 buffer pouches, 10 pack
911010	Orion pH 10.01 buffer pouches, 10 pack
911110	Orion pH rinse solution pouches, 10 pack
011008	Orion 100 μ S conductivity std, 5 x 60 mL
01100710	Orion 1413 μ S conductivity std, 10 pack
01100610	Orion 12.9 mS conductivity std, 10 pack
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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