

Thermo Scientific Orion Star A324

Premium pH/ISE portable meter

The Thermo Scientific™ Orion™ Star A324 pH/ISE 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 A324 pH/ISE 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 pH/mV/RmV/ISE and temperature along with electrode status, time, date, sample ID, user ID and calibration points.


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
- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers or manual option for custom buffer values
- Up to 5 point ISE calibration with optional non-linear auto-blank and low-concentration stability
- Calibration editing to fix individual points without a full recalibration
- 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

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Thermo Scientific Orion Star A324 pH/ISE 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 Resolution: 0.1 mV Relative Accuracy: ± 0.2 mV or ± 0.05 % of reading whichever is greater E_H ORP Mode: Yes
ISE	Range: 0.0001 to 19900 Resolution: 0.0001 minimum, auto ranging, up to 3 significant digits (user selectable) Relative Accuracy: ± 0.2 mV or ± 0.05 % of reading whichever is greater Units: ppm, M, mg/L, %, ppb, none Calibration Points: Up to 5 Calibration Editing: Yes Calibration Features: Linear point to point, non-linear selectable auto-blank, low concentration range stability
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 or ISE: BNC, reference pin 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

 **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
STARA3240	Orion Star A324 pH/ISE Portable Meter - Four AA batteries (installed) - Printed quick start guide and literature CD - USB computer cable
STARA3245	Orion Star A324 pH/ISE Portable Meter Kit - 8107UWMMMD Orion Ultra Triode gel-filled epoxy-body pH/ATC electrode, 3 m cable - Orion pH 4, 7, 10 pouches, 10 each - 810001 Orion ROSS electrode storage solution - 911110 Orion rinse solution pouches - Protective armor with electrode holder 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
STARA-CS	Orion Star A series portable meter hard-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-ESPH	Orion pH electrode holder for portable Star A series meter armor
810017	Orion pH electrode storage sleeve for pH electrode holder
8107UWMMMD	Orion ROSS Ultra Triode gel-filled epoxy-body pH/ATC electrode, 3 m cable
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
9512HPBNWP	Orion high-performance ammonia ISE
9512BNWP	Orion standard ammonia ISE
951007	Ammonia standard, 1000 ppm, 475 mL
951210	Low-level ammonia ISA
951211	Ammonia ISA, 475 mL
9609BNWP	Orion fluoride combination ISE
040906	Fluoride standard, 1 ppm with TISAB II, 475 mL
040908	Fluoride standard, 10 ppm with TISAB II, 475 mL
940909	TISAB II, 1 gallon
8611BNWP	Orion ROSS sodium combination ISE

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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