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



Thermo Scientific Orion Star A324 pH/ISE Portable Meter

| | Chanifications |
|-------------|--|
| | Specifications 2000 L 2 |
| 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 |
| | RS232, USB AC Adapter: Optional—universal, 100-240 VAC Battery Power: Included—4 AAs |

| 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 - 8107UWMMD 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 |
| 8107UWMMD | 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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STARA-CS

STARA-AR