

Thermo Scientific Orion Star A221

Advanced pH portable meter

The Thermo Scientific™ Orion™ Star A221 pH 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 A221 pH Portable Meter. The large, backlit graphic LCD display shows pH/mV/ORP and temperature along with electrode status, time, date 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 and ready indicator alerts when continuous readings are stable
- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers or manual option for custom buffer values


- 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 A221 pH 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
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
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	pH Electrode: 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



Certified System

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

thermoscientific.com/water

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Meter Ordering Information

Part No.	Description
STARA2210	Orion Star A221 pH Portable Meter - Four AA batteries (installed) - Printed quick start guide and literature CD - USB computer cable
STARA2215	Orion Star A221 pH Portable Meter Kit - 8107UWMMMD Orion ROSS Ultra Triode gel-filled epoxy-body pH/ATC electrode, 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 - 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
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-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
8107BNUMD	Orion ROSS Ultra Triode gel-filled epoxy-body pH/ATC electrode, 1 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
911110	Orion rinse solution pouches, 10 pack
9179BNMD	Orion Triode gel-filled epoxy-body ORP/ATC electrode
967961	Orion ORP standard solution, 5 x 60 mL

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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