

# Thermo Scientific Orion Star A211

Advanced pH benchtop meter

The Thermo Scientific™ Orion™ Star A211 pH Benchtop Meter works for any lab or application. Its durability and dependability make it ideal for every sample, every day.



The Thermo Scientific Orion Star A211 pH Benchtop Meter is the ideal choice for any lab. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows pH/mV/RmV and temperature 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 and calibration editing to fix individual points without a full recalibration
- Non-volatile memory holds up to 2000 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
- Stir samples with ease using the meter-controlled Orion Star stirrer probe (Cat. No. 096019)
- Included electrode arm and holder make it easier to maintain and place probes into samples
- Power the meter using the included universal power adapter or four AA batteries (sold separately)
- IP54-rated housing handles splashes and is wall-mountable to save space
- 3 year meter replacement warranty

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## Thermo Scientific Orion Star A211 pH Benchtop Meter

Specifications	
<b>pH</b>	<b>Range:</b> -2.000 to 20.000 <b>Resolution:</b> 0.1, 0.01, 0.001 <b>Relative Accuracy:</b> ±0.002 <b>Calibration Points:</b> Up to 5 <b>Calibration Editing:</b> Yes
<b>mV/RmV</b>	<b>Range:</b> ±2000.0 mV <b>Resolution:</b> 0.1 mV <b>Relative Accuracy:</b> ±0.2 mV or ±0.05 % of reading whichever is greater <b>E<sub>H</sub> ORP Mode:</b> Yes
<b>Temperature</b>	<b>Range:</b> -5 to 105 °C, 23 to 221 °F <b>Resolution:</b> 0.1 °C, 0.1 °F <b>Relative Accuracy:</b> ±0.1 °C, ±0.1 °F <b>Offset Calibration:</b> 1 point
<b>Datalogging</b>	<b>Memory:</b> 2000 with time and date stamp <b>Log Function:</b> Manual, ready (includes AUTO-READ), timed
<b>Inputs</b>	<b>pH Electrode:</b> BNC, reference pin <b>ATC Probe:</b> 8-pin mini-DIN
<b>Output</b>	RS232, USB
<b>Power</b>	<b>AC Adapter:</b> Included—universal, 100-240 VAC <b>Battery Power:</b> Optional—4 AAs <b>Battery Life:</b> 800 hrs

Meter Ordering Information	
Part No.	Description
<b>STARA2110</b>	<b>Orion Star A211 pH Benchtop Meter</b> - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable
<b>STARA2115</b>	<b>Orion Star A211 pH Benchtop Meter Kit</b> - 8302BNUMD Orion ROSS Ultra Triode refillable, glass-body pH/ATC electrode - 810199 Orion ROSS pH buffer and solutions kit - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable

<b>STARA2116</b>	<b>Orion Star A211 pH Benchtop Meter Kit</b> - 8157BNUMD Orion ROSS Ultra Triode refillable, epoxy-body pH/ATC electrode - 810199 Orion ROSS pH buffer and solutions kit - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable
<b>STARA2117</b>	<b>Orion Star A211 pH Benchtop Meter Kit</b> - 9157BNMD Orion Triode refillable, epoxy-body pH/ATC electrode - 910199 Orion pH buffer and solutions kit - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable

Accessories Ordering Information	
Part No.	Description
<b>096019</b>	Orion Star stirrer probe
<b>STARA-BEA</b>	Orion Star A series electrode arm, holder and benchtop meter-attachable base plate
<b>STARA-HB</b>	Orion Star A series freestanding base for electrode arm and holder
<b>8172BNWP</b>	Orion ROSS Sure-Flow refillable, glass-body pH electrode
<b>8165BNWP</b>	Orion ROSS Sure-Flow refillable, epoxy-body pH electrode
<b>8102BNUWP</b>	Orion ROSS Ultra refillable, glass-body pH electrode
<b>927007MD</b>	Orion stainless steel ATC temperature probe
<b>910104</b>	Orion pH 4.01 buffer, 475 mL
<b>910107</b>	Orion pH 7.00 buffer, 475 mL
<b>910110</b>	Orion pH 10.01 buffer, 475 mL
<b>810001</b>	Orion ROSS pH electrode storage solution, 475 mL
<b>910001</b>	Orion pH electrode storage solution, 475 mL
<b>9678BNWP</b>	Orion Sure-Flow refillable epoxy-body ORP electrode
<b>967901</b>	Orion ORP standard solution, 475 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](http://www.thermoscientific.com/water).

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Redesigned electrode arm and holder

### Water Analysis Instruments

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