

# Thermo Scientific Orion Star A215

Advanced pH/conductivity benchtop meter

The Thermo Scientific™ Orion™ Star A215 pH/Conductivity 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 A215 pH/Conductivity 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 one or both pH and conductivity channels with temperature. Additional information includes electrode status, time, date, sample ID and user ID.

## 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 the stable reading on screen, ready indicator alerts when reading is stable and timed setting logs data at set 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 and 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 2000 data points with time and date stamp
- Easily transfer data 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
- Included electrode arm and holder make it easier to maintain probes
- 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 A215 pH/Conductivity 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>Conductivity</b>	<b>Range:</b> 0.001 µS to 3000 mS <b>Resolution:</b> 0.001 µS minimum, auto ranging, up to 4 significant digits <b>Relative Accuracy:</b> 0.5 % of reading ±1 digit > 3 µS, 0.5 % of reading ±0.01 µS ≤ 3 µS <b>Reference Temperature:</b> 5, 10, 15, 20, 25 °C <b>Temperature Compensation:</b> Linear, nonlinear nLFn & nLFu, EP (USP), off <b>Compatible Cell Constants:</b> 0.001 to 199.9 <b>Calibration Points:</b> Up to 5 points <b>Calibration Editing:</b> Yes
<b>Resistivity</b>	<b>Range:</b> 2 ohm to 100 meg-ohm <b>Resolution:</b> 1 ohm or 0.1 meg-ohm, auto ranging <b>Relative Accuracy:</b> 0.5 % reading ±1 digit
<b>Salinity</b>	<b>Type:</b> Practical salinity or natural sea water <b>Range:</b> 0.06 to 80.00 psu, 0.05 to 42.00 ppt <b>Resolution:</b> 0.01 psu, 0.01 ppt <b>Relative Accuracy:</b> 0.5 % reading ±1 digit
<b>TDS</b>	<b>Range:</b> 0.001 to 200.0 ppt <b>Resolution:</b> 0.001 ppt minimum, auto ranging, up to 4 significant digits <b>Relative Accuracy:</b> 0.5 % reading ±1 digit <b>TDS Factor Range:</b> Linear 0.02 to 9.99
<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>Conductivity or ATC Probe:</b> 8-pin mini-DIN
<b>Output</b>	RS232, USB

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

[thermoscientific.com/water](http://thermoscientific.com/water)

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S-STARA215-E 1213 Rev C

**Power** **AC Adapter:** Included—universal, 100-240 VAC  
**Battery Power:** Optional—4 AAs  
**Battery Life:** 800 hrs

### Meter Ordering Information

Part No.	Description
<b>STARA2150</b>	<b>Orion Star A215 pH/Conductivity Benchtop Meter</b> - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable
<b>STARA2155</b>	<b>Orion Star A215 pH/Conductivity Benchtop Meter Kit</b> - 8157BNUMD Orion ROSS Ultra Triode refillable, epoxy-body pH/ATC electrode - 013005MD Orion DuraProbe conductivity probe - ROSS pH buffer & solution kit - 011007 Orion 1413 µS conductivity standard - 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>8302BNUMD</b>	Orion ROSS Ultra Triode refillable, glass-body pH/ATC electrode
<b>8102BNUWP</b>	Orion ROSS Ultra refillable, glass-body pH electrode
<b>927007MD</b>	Orion stainless steel ATC temperature probe
<b>810199</b>	Orion ROSS All-in-One pH buffer kit
<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>013005MD</b>	Orion DuraProbe conductivity probe, 4-cell, K=0.475
<b>013016MD</b>	Orion 2-electrode conductivity probe with flow cell, K=0.1
<b>011008</b>	Orion 100 µS conductivity standard, 5 x 60 mL
<b>011007</b>	Orion 1413 µS conductivity standard, 5 x 60 mL
<b>011006</b>	Orion 12.9 mS conductivity standard, 5 x 60 mL
<b>1010001</b>	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](http://www.thermoscientific.com/water).



Redesigned electrode arm and holder



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