

# Thermo Scientific Orion Star A121

Basic pH portable meter

Thermo Scientific™ Orion™ Star A121 pH Portable Meters make it easy and affordable to take simple, accurate pH measurements.



Thermo Scientific Orion Star A121 pH Portable Meters combine simplicity with accuracy. A large LCD displays pH or mV readings along with temperature. Icons provide quick updates on battery life, electrode status and calibration information. Simple button layout and onscreen messages help with calibration and setup menu choices.

## Features and Benefits

- Large, informative screen clearly shows the main information, including pH or mV reading, temperature in °C or °F, meter mode, calibration information and battery life
- 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 3 point pH calibration with easy recall of calibration point and slope data
- Automatic recognition of USA/NIST and DIN buffers or manual option for custom buffer values
- Non-volatile memory holds up to 50 data points
- Four AA batteries (included) provide 2000 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 A121 pH Portable Meter

Specifications	
<b>pH</b>	<b>Range:</b> -2.00 to 16.00 <b>Resolution:</b> 0.1, 0.01 <b>Relative Accuracy:</b> ±0.01 <b>pH Calibration Points:</b> Up to 3
<b>mV</b>	<b>Range—mV:</b> ±1600.0 mV <b>Range—RmV:</b> ±1999.9 mV <b>Resolution:</b> 0.1 mV <b>Relative Accuracy:</b> ±0.2 mV or ±0.05 % of reading whichever is greater <b>Relative mV Calibration:</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>Temperature Compensation:</b> Automatic or manual <b>Temperature Offset Calibration:</b> Yes
<b>Datalogging</b>	<b>Number of Points:</b> 50 <b>Log Function:</b> Manual, Automatic with AUTO-READ
<b>Inputs</b>	<b>pH Electrode:</b> BNC <b>ATC Probe:</b> 8-pin mini-DIN
<b>Power</b>	<b>AC Adapter:</b> Optional—universal, 100-240 VAC <b>Battery Power:</b> Included—4 AAs <b>Battery Life:</b> 2000 hrs



**Certified System**  
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-STARA121-E 1213 Rev B

### Meter Ordering Information

Part No.	Description
<b>STARA1210</b>	<b>Orion Star A121 pH Portable Meter</b> - Four AA batteries (installed) - Printed quick start guide and literature CD
<b>STARA1215</b>	<b>Orion Star A121 pH Portable Meter Kit</b> - 9107BNMD Orion Triode gel-filled, epoxy-body pH/ATC electrode - 916099 Orion 60 mL pH buffer and solutions kit - 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

### Accessories Ordering Information

Part No.	Description
<b>STARA-CS</b>	Orion Star A series portable meter hard-sided field case
<b>1210005</b>	Orion Star A series portable meter soft-sided field case
<b>STARA-AR</b>	Orion Star A series portable meter armor with pH electrode holder, conductivity and DO probe holder, stand and adjustable hand-strap
<b>STARA-ESPH</b>	Orion pH electrode holder for portable Star A series meter armor
<b>810017</b>	Orion pH electrode storage sleeve for pH electrode holder
<b>9157BNMD</b>	Orion Triode refillable, epoxy-body pH/ATC electrode
<b>9107WMMD</b>	Orion Triode gel-filled, epoxy-body pH/ATC electrode with 3 m cable
<b>1010003</b>	Universal power adapter, 100-240 V, 50/60 Hz
<b>910410-WA</b>	Orion pH 4.01 buffer pouches, 10 pack
<b>910710</b>	Orion pH 7.00 buffer pouches, 10 pack
<b>911010</b>	Orion pH 10.01 buffer pouches, 10 pack
<b>911110</b>	Orion rinse solution pouches, 10 pack
<b>9179BNMD</b>	Orion Triode gel-filled epoxy-body ORP/ATC electrode
<b>967961</b>	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](http://www.thermoscientific.com/water).



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