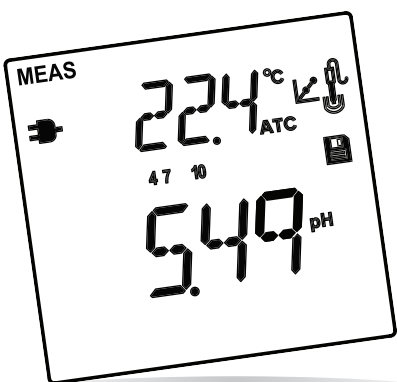


Thermo Scientific Orion Star A111 pH Benchtop Meters make it easy and affordable to take simple, accurate pH measurements.

## Thermo Scientific Orion Star A111 pH Benchtop Meter



Thermo Scientific Orion Star A111 pH Benchtop 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 power source
- Don't miss a reading – AUTO-READ™ locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Up to 3 point pH calibration
- Automatic recognition of USA/NIST and DIN buffers
- Easily recall calibration slope data for procedure checks
- Non-volatile memory holds up to 50 data points
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Plug the meter into almost any power outlet with the included universal power adapter, or use four AA batteries (sold separately) to run the meter on DC power
- The IP54-rated housing can handle splashes and can be wall-mounted if table space is a problem
- 3 year meter replacement warranty

## Thermo Scientific Orion Star A111 pH Benchtop 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
	<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
	<b>Relative Accuracy</b>	±0.1
	<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>Log Edit</b>	Delete last reading or all
<b>Inputs</b>	<b>pH Electrode</b>	BNC
	<b>ATC Probe</b>	8-pin mini-DIN
<b>Power</b>	<b>AC Adapter</b>	Included – universal, 100-240 VAC
	<b>Battery Power</b>	Optional – 4 AAs
	<b>Battery Life</b>	2000 hrs

### Ordering Information

Cat. No.	Description
<b>Meters Only</b>	
<b>STARA1110</b>	<b>Orion STAR A111 pH Benchtop Meter</b> - Electrode arm with redesigned holder - Universal power adapter
<b>STARA1115</b>	<b>Orion STAR A111 pH Benchtop Meter Kit</b> - 9157BNMD Orion Triode 3-in-1 pH/ATC probe - Solution kit (60 mL each of pH 4, 7 and 10 buffers; storage solution and cleaning solution) - Electrode arm with redesigned holder - Universal power adapter
<b>Accessories</b>	
<b>STARA-BEA</b>	Benchtop electrode arm for Orion Star A-series meters
<b>STARA-HB</b>	Freestanding base for use with Orion Star A-series benchtop electrode arm
<b>9157BNMD</b>	Orion Triode 3-in-1 pH/ATC probe, refillable, epoxy body
<b>9107BNMD</b>	Orion Triode 3-in-1 pH/ATC probe, gel-filled, epoxy body
<b>910199</b>	Orion Standard All-in-One pH buffer kit - 475 mL each of 4.01, 7.00 and 10.01 buffers and pH electrode storage solution with pH electrode storage bottle
<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>910001</b>	Orion pH electrode storage solution, 475 mL
<b>916099</b>	Orion pH buffer assortment pack – 60 mL each of pH 4, 7 and 10 buffers; storage solution and cleaning solution D

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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**Water Analysis Instruments**  
[www.thermoscientific.com/water](http://www.thermoscientific.com/water)

**North America**  
166 Cummings Center  
Beverly, MA 01915 USA  
Toll Free: 1-800-225-1480  
Tel: 1-978-232-6000  
info.water@thermo.com

**Netherlands**  
Tel: (31) 033-2463887  
info.water.uk@thermo.com

**China**  
Tel: (86) 21-68654588  
wai.asia@thermofisher.com

**India**  
Tel: (91) 22-4175-8800  
wai.asia@thermofisher.com

**Singapore**  
Tel: (65) 6778-6876  
wai.asia@thermofisher.com

**Japan**  
Tel: (81) 045-453-9175  
wai.asia@thermofisher.com

**Australia**  
Tel: (613) 9757-4300  
infowaterau@thermofisher.com

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