

## Thermo Scientific Orion Star A321 pH Portable Meter

The Thermo Scientific Orion Star A321 pH Portable Meter is the top choice for testing samples anywhere. It is rugged and dependable, making it ideal for every sample, every day, everywhere.



The Thermo Scientific Orion Star A321 pH Portable Meter is the top choice for advanced measurements on location. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows pH/mV/RmV and temperature along with electrode status, time, date, sample ID, user ID and calibration points. Advanced features such as stability and averaging options provide additional options allowing for laboratory accuracy everywhere you need it.

### Features and Benefits

- Anyone can use this meter with its plain language screen prompts, soft keys that update for easy selection and a multilanguage interface that supports 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
- Fix errors without a complete recalibration with calibration editing
- Non-volatile memory holds up to 5000 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 data analysis software
- Four AA batteries (included) provide over 800 hours of operation or purchase the universal power adapter (sold separately) to use AC power
- Perfectly portable, waterproof and protected to take anywhere with a IP67-rated housing
- 3 year meter replacement warranty

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### 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
	<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
	<b>Relative Accuracy</b>	±0.1
	<b>Offset Calibration</b>	1 point
<b>Datalogging</b>	<b>Memory</b>	5000 with time and date stamp
	<b>Log Function</b>	Manual, ready (includes AUTO-READ™), timed
	<b>Log Edit</b>	Delete individual points, group of points or all
<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>	Optional – universal, 100-240 VAC
	<b>Battery Power</b>	Included – 4 AAs
	<b>Battery Life</b>	800 hrs

### Ordering Information

Cat. No.	Description
<b>STARA3210</b>	<b>Orion STAR A321 pH Portable Meter</b> - Four AA batteries (installed)
<b>STARA3215</b>	<b>Orion STAR A321 pH Portable Meter Kit</b> - 8107UWMMD Orion ROSS Triode 3-in-1 pH/ATC probe - 910410 Orion pH 4.01 buffer, 10 pouches - 910710 Orion pH 7.00 buffer, 10 pouches - 911010 Orion pH 10.01 buffer, 10 pouches - 810001 Orion ROSS electrode storage solution, 475 mL - 911110 rinse solution, 10 pouches - Protective armor with electrode holder - Hard carrying case - Four AA batteries (installed)
Accessories	
<b>STARA-CS</b>	Hard carrying case for Orion Star A-series portable meters
<b>STARA-AR</b>	Armor for Orion Star A-series portable meters, includes electrode holders for pH, conductivity and DO probes
<b>STARA-ESPH</b>	pH electrode holder for Orion Star A-series armor
<b>STARA-ESCD</b>	Conductivity and DO probe holder for Orion Star A-series armor
<b>8107UWMMD</b>	Orion ROSS Triode 3-in-1 pH/ATC probe, gel-filled, 3m cable
<b>1010003</b>	Optional universal power adapter, 100-240 V, 50/60 Hz
<b>910410</b>	Orion pH 4.01 buffer pouches, 10/pk
<b>910710</b>	Orion pH 7.00 buffer pouches, 10/pk
<b>911010</b>	Orion pH 10.01 buffer pouches, 10/pk
<b>911110</b>	Orion pH rinse solution pouches, 10/pk

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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