

The Thermo Scientific Orion Star A214 pH/ISE Benchtop Meter works for any lab or application. Its durability and dependability make it ideal for every sample, every day.

## Thermo Scientific Orion Star A214 pH/ISE Benchtop Meter



The Thermo Scientific Orion Star A214 pH/ISE 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/ISE results and temperature along with electrode status, time, date, sample ID, user ID and calibration points. For advanced users, features such as stability and averaging choices provide additional options.

### Features and Benefits

- Anyone can use this meter with its plain language screen prompts, soft keys that update for easy selection and a multilingual 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
- Whether you use ISE infrequently or have multiple samples every day – up to 5 point ISE calibration with advanced features such as timed end point, linear point-to-point, non-linear selectable auto-blank and low-concentration range stability
- Fix errors without a complete recalibration with the calibration editing function
- 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 data analysis software
- Mix samples without a stir plate with direct control of the Orion Star stirrer probe (096019, sold separately)
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Works with almost every AC power source with the included universal power adapter, or use four AA batteries (sold separately) to run the meter on DC power
- IP54-rated housing handles splashes and is wall-mountable if table space is a problem
- 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>ISE</b>	<b>Range</b>	0 to 19999
	<b>Resolution</b>	Up to 3 significant digits
	<b>Relative Accuracy</b>	±0.2 mV or ±0.05 % of reading whichever is greater
	<b>Units</b>	ppm, M, mg/L, %, ppb, none
	<b>Calibration Points</b>	Up to 5
	<b>Calibration Editing</b>	Yes
	<b>Calibration Features</b>	Timed end point, linear point to point, non-linear selectable auto-blank, low concentration range stability
<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>Number of Points</b>	2000 with time and date stamp
	<b>Log Function</b>	Manual, ready (include 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>	Included – universal, 100-240 VAC
	<b>Battery Power</b>	Optional – 4 AAs
	<b>Battery Life</b>	800 hrs

### Ordering Information

Cat. No.	Description
<b>STARA2140</b>	<b>Orion STAR A214 pH/ISE Benchtop Meter</b> - Electrode arm with redesigned holder - Universal power adapter
<b>STARA2145</b>	<b>Orion STAR A214 pH/ISE Benchtop Meter Kit</b> - 8102BNUWP Orion ROSS Ultra pH electrode - 927007MD ATC probe, stainless steel - 096019 Orion Star stirrer probe - 810199 ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle) - Electrode arm with redesigned holder - Universal power adapter
<b>STARA2146</b>	<b>Orion Star A214 pH/ISE Benchtop Meter Kit for Ammonia</b> - 8102BNUWP Orion ROSS Ultra pH electrode - 9512HPBNWP Orion high-performance Ammonia ISE - 927007MD ATC probe, stainless steel - 096019 Orion Star stirrer probe - 951007 Orion Ammonia 1000 ppm standard, 475 mL - 951210 Orion Low-level Ammonia ISA - 951213 Ammonia ISE storage solution - Electrode arm with redesigned holder - Universal power adapter
<b>STARA2147</b>	<b>Orion Star A214 pH/ISE Benchtop Meter Kit for Fluoride</b> - 8102BNUWP Orion ROSS Ultra pH electrode - 9609BNWP Orion fluoride ISE - 927007MD ATC probe, stainless steel - 096019 Orion Star stirrer probe - 040906 Orion fluoride standard, 1 ppm with TISABII, 475 mL - 040907 Orion fluoride standard, 2 ppm with TISABII, 475 mL - 040908 Orion fluoride standard, 10 ppm with TISAB II, 475 mL - 940909 Orion TISABII solution, 1 gallon - Electrode arm with redesigned holder - Universal power adapter
<b>STARA2148</b>	<b>Orion Star A214 pH/ISE Benchtop Meter Kit for Sodium</b> - 8102BNUWP Orion ROSS Ultra pH electrode - 8611BNWP Orion ROSS sodium ISE - 927007MD ATC probe, stainless steel - 096019 Orion Star stirrer probe - Electrode arm with redesigned holder - Universal power adapter
<b>Accessories</b>	
<b>810199</b>	Orion ROSS All-in-One pH buffer kit
<b>951007</b>	Ammonia standard, 1000 ppm, 475 mL
<b>951210</b>	Low-level ammonia ISA
<b>951211</b>	Ammonia ISA, 475 mL
<b>040906</b>	Fluoride standard, 1 ppm with TISAB II, 475 mL
<b>040907</b>	Fluoride standard, 2 ppm with TISAB II, 475 mL
<b>040908</b>	Fluoride standard, 10 ppm with TISAB II, 475 mL
<b>940909</b>	TISAB II, 1 gallon

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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