



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

The Thermo Scientific Orion Star A214 pH/ISE Benchtop Meter is the ideal choice for dedicated ISE analysis. Whether you use ISE infrequently or have multiple samples every day, 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.

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### 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
- 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
- Stores up to 10 methods allow for customized procedures to differentiate between tests and/or users
- 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



### Product Specifications

CE   TUV   FCC		
pH	Range	-2.000 to 20.000
	Resolution	0.1, 0.01, 0.001
	Relative Accuracy	±0.002
	Calibration Points	Up to 5
	Calibration Editing	Yes
mV/Rel mV/ ORP	Range	±2000.0 mV
	Resolution	0.1
	Relative Accuracy	±0.2 mV or ±0.05 % of reading whichever is greater
	E <sub>i</sub> ORP Mode	Yes
ISE	Range	0 to 19999
	Resolution	Up to 3 significant digits
	Relative Accuracy	±0.2 mV or ±0.05 % of reading whichever is greater
	Units	ppm, M, mg/L, %, ppb, none
	Calibration Points	Up to 5
	Calibration Editing	Yes
	Calibration Features	Timed end point, linear point to point, non-linear selectable auto-blank, low concentration range stability
Temperature	Range	-5 to 105 °C, 23 to 221 °F
	Resolution	0.1
	Relative Accuracy	±0.1
	Offset Calibration	1 point
Datalogging	Number of Datalogs	2000 with time and date stamp
	Log Function	Manual, ready (include AUTO-READ™), timed
Inputs	pH Electrode	BNC, reference pin
	ATC Probe	8-pin mini-DIN
Output		RS232, USB
Power	AC Adapter	Included – universal, 100-240 VAC
	Battery Power	Optional – 4 AAs
	Battery Life	800 hrs

### Meter Ordering Information

Cat. No.	Description
STARA2140	<b>Orion Star A214 pH/ISE Benchtop Meter</b> - Electrode arm with redesigned holder - Universal power adapter
STARA2145	<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
STARA2146	<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
STARA2147	<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 TISAB I, 475 mL - 040907 Orion fluoride standard, 2 ppm with TISAB I, 475 mL - 040908 Orion fluoride standard, 10 ppm with TISAB II, 475 mL - 940909 Orion TISAB I solution, 1 gallon - Electrode arm with redesigned holder - Universal power adapter
STARA2148	<b>Orion Star A214 pH/ISE Benchtop Meter Kit for Sodium</b> - 8102BNUWP Orion ROSS Ultra pH electrode - 8611BNWP Orion ROSS sodium ISE with sodium standards - 927007MD ATC probe, stainless steel - 096019 Orion Star stirrer probe - Electrode arm with redesigned holder - Universal power adapter

### Accessories

Cat. No.	Description
810199	Orion ROSS All-in-One pH buffer kit
951007	Ammonia standard, 1000 ppm, 475 mL
951210	Low-level ammonia ISA
951211	Ammonia ISA, 475 mL
040906	Fluoride standard, 1 ppm with TISAB II, 475 mL
040907	Fluoride standard, 2 ppm with TISAB II, 475 mL
040908	Fluoride standard, 10 ppm with TISAB II, 475 mL
940909	TISAB II, 1 gallon

pH

ISE

ORP

Cond

RDO

DO

Temp