## Thermo Scientific Orion Star A214

Advanced pH/ISE benchtop meter

The Thermo Scientifio™ 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.









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 and temperature with electrode status, time, date, sample ID, user ID and calibration points.

## **Features and Benefits**

- Easy meter operation assured with on-screen text prompts, menu-specific function keys and a multi-language interface
- 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 or manual option for custom buffer values
- Up to 5 point ISE calibration with optional non-linear auto-blank and low-concentration stability

- Calibration editing to fix individual points without a full recalibration
- 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 Orion Star Com computer software
- Stir samples with ease using the meter-controlled Orion Star stirrer probe
- Included electrode arm and holder make it easier to maintain probes
- Power the meter using the universal power adapter or four AA batteries
- IP54-rated housing handles splashes and is wall-mountable to save space
- 3 year meter replacement warranty



Redesigned electrode arm and holder

## Thermo Scientific Orion A214 pH/ISE Benchtop Meter

	Specifications
pH	Range: -2.000 to 20.000
	<b>Resolution:</b> 0.1, 0.01, 0.001
	Relative Accuracy: ±0.002
	Calibration Points: Up to 5
	Calibration Editing: Yes
mV/RmV	<b>Range:</b> ±2000.0 mV
	Resolution: 0.1 mV
	<b>Relative Accuracy:</b> $\pm 0.2$ mV or $\pm 0.05$ % of
	reading whichever is greater
	E <sub>H</sub> ORP Mode: Yes
ISE	Range: 0.0001 to 19900
	Resolution: 0.0001 minimum, auto ranging,
	up to 3 significant digits (user selectable)
	<b>Relative Accuracy:</b> $\pm 0.2$ mV or $\pm 0.05$ % of
	reading whichever is greater
	Units: ppm, M, mg/L, %, ppb, none
	Calibration Points: Up to 5
	Calibration Editing: Yes
	Calibration Features: Linear point to point,
	non-linear selectable auto-blank,
	low concentration range stability
Temperature	<b>Range:</b> -5 to 105 °C, 23 to 221 °F
	Resolution: 0.1 °C, 0.1 °F
	Relative Accuracy: ±0.1 °C, ±0.1 °F
	Offset Calibration: 1 point
Datalogging	Memory: 2000 with time and date stamp
	Log Function: Manual, ready
	(includes AUTO-READ), timed
Inputs	pH Electrode or ISE: 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
Part No.	Description
STARA2140	Orion Star A214 pH/ISE Benchtop Meter*
STARA2145	Orion Star A214 pH/ISE Benchtop Meter Kit* - 8102BNUWP Orion ROSS Ultra pH electrode - 927007MD Orion stainless steel ATC probe - 096019 Orion Star stirrer probe - 810199 ROSS pH buffer & solution kit
STARA2146	Orion Star A214 pH/ISE Benchtop
STARA2147	Meter Kit for Ammonia*  - 8102BNUWP Orion ROSS Ultra pH electrode  - 9512HPBNWP Orion high-performance ammonia ISE  - 927007MD Orion stainless steel ATC probe  - 096019 Orion Star stirrer probe  - 951007 Ammonia 1000 ppm standard  - 951210 Low-level ammonia ISA  - 951213 Ammonia ISE storage solution  Orion Star A214 pH/ISE Benchtop
	Meter Kit for Fluoride*  - 8102BNUWP Orion ROSS Ultra pH electrode  - 9609BNWP Orion fluoride ISE  - 927007MD Orion stainless steel ATC probe  - 096019 Orion Star stirrer probe  - 040906, 040907 & 040908 Orion fluoride standards; 1 ppm, 2 ppm & 10 ppm with TISAB II  - 940909 Orion TISABII solution, 1 gallon
STARA2148	Orion Star A214 pH/ISE Benchtop Meter Kit for Sodium*  - 8102BNUWP Orion ROSS Ultra pH electrode - 8611BNWP Orion ROSS sodium ISE and sodium solutions - 927007MD Orion stainless steel ATC probe - 096019 Orion Star stirrer probe
* All the above configurations come with:	- Attached electrode stand and holder     - Universal power adapter     - Printed quick start guide and literature CD     - USB computer cable

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



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