

**Thermo Scientific Orion  
VERSA STAR advanced  
electrochemistry meter is  
your meter as you need it  
– for now and later.**

## Thermo Scientific Orion VERSA STAR™ Advanced Electrochemistry Meter



This versatile meter has a large, color graphic LCD display. The informative display shows readings, connections, time, date, sample ID, user ID and calibration information.

### Features and Benefits

- Select from five modules to customize the 4 channels as you need it – it's versatile for you to configure how you need it for now or for later
- 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
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Data transfer and updating meter software is easy with two USB and RS232 ports
- Includes data analysis software for transferring stored results or displaying readings in real-time
- Mix samples without a stir plate with direct control for two Orion Star stirrer probes (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
- IP54-rated housing handles splashes
- 3 year meter replacement warranty

### A variety of modules that you can place in any of the four channels.

- **pH/Temperature module allows:**
  - up to 5 point pH calibration with automatic recognition for USA/ NIST and DIN buffers
  - fixing of calibration errors without a complete recalibration with calibration editing
- **Use with the pH/ISE/Temperature module for:**
  - all the benefits of the pH module
  - fixing pH/ISE calibration errors without a complete recalibration with calibration editing
  - advanced ISE benefits such as auto-blank, timed end point, linear point-to-point, non-linear selectable auto-blank, low-concentration range stability, ISE ID and incremental techniques
- **Conductivity/Temperature module offers:**
  - conductivity, TDS, salinity or resistivity capabilities
  - selectable reading reference temperatures of 5, 10, 15, 20 or 25 °C with linear, non-linear, nLFu or EP curve options for conductivity
  - choice of practical salinity or natural sea water curves for salinity readings
- **Dissolved Oxygen/RDO/Temperature module:**
  - Takes the worry out of DO probe compatibility – the meter accepts and automatically recognizes Orion polarographic and RDO optical/luminescence-based probes
  - Compensates automatically for temperature, salinity with manual input and barometric pressure (automatic or manual)
  - Allows for calibration using water-saturated air, air-saturated water, a Winkler titration or zero point
- **Module featuring LogR technology:**
  - includes all of the features of the pH module with the added benefits of:
    - the most advanced electrode diagnostics
    - no temperature sensor needed to get temperature-compensated pH readings

## Description



No need to turn off your meter to switch modules – meter automatically recognizes module changes.

This meter is the complete package – up to four channels to mix and match with easy-to-use key layouts and graphics.

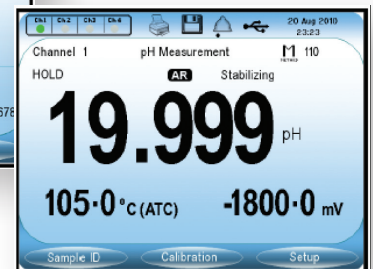
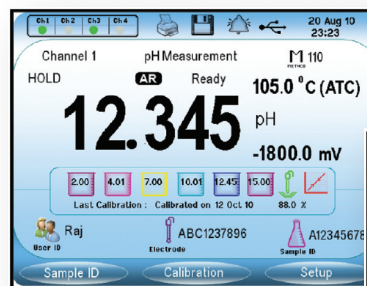
Specifications



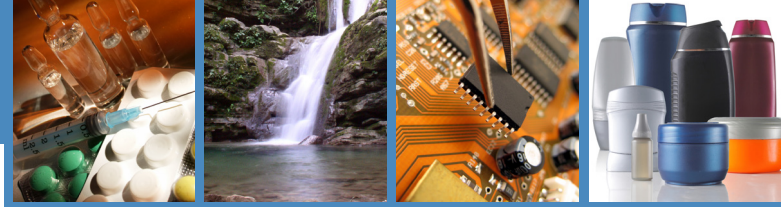
pH Module (VSTAR-PH) Specifications		
<b>pH</b>	<b>Range</b>	-2.000 to 20.000
	<b>Resolution</b>	0.1, 0.01, 0.001
	<b>Relative Accuracy</b>	±0.002
	<b>Calibration Points</b>	Up to 6
	<b>Calibration Editing</b>	Yes
	<b>Adjustable ISO Point</b>	Yes
<b>mV/RmV</b>	<b>Range</b>	±2000.0 mV
	<b>Resolution</b>	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>Inputs</b>	pH: BNC, reference pin ATC: 8-pin mini-DIN	

RDO/DO Module (VSTAR-RD) Specifications			
<b>Dissolved Oxygen</b>	<b>Concentration - Polarographic</b>		
	<b>Range</b>	0 to 90 mg/L	
	<b>Resolution</b>	0.01, 0.1	
	<b>Relative Accuracy</b>	±0.2	
	<b>% Saturation - Polarographic</b>		
	<b>Range</b>	0 to 600	
	<b>Resolution</b>	0.1, 1	
	<b>Relative Accuracy</b>	±2 %	
	<b>Concentration - RDO</b>		
	<b>Range</b>	0 to 50 mg/L	
	<b>Resolution</b>	0.01, 0.1	
	<b>Relative Accuracy</b>	±0.1 mg/L up to 8 mg/L; ±0.2 mg/L from 8 to 20 mg/L; 10 % of reading, 20 to 50 mg/L	
<b>% Saturation - RDO</b>	<b>Range</b>	0 to 500	
	<b>Resolution</b>	0.1, 1	
	<b>Relative Accuracy</b>	±2 %	
	<b>Automatic Barometric Pressure Correction</b>	450.0 to 850.0 mm Hg	
	<b>Salinity Factor Correction</b>	Automatic when used with conductivity module and probe or manual; 0 to 45 ppt	
	<b>Calibration Features</b>	Water saturated air, air saturated water, manual (Winkler) and zero point	
	<b>Probe Type</b>	Polarographic or RDO	
	<b>Temperature</b>	<b>Range</b>	0 to 50 °C, 32 to 122 °F
		<b>Resolution</b>	0.1
		<b>Relative Accuracy</b>	±0.1
		<b>Offset Calibration</b>	1 point
	<b>Input</b>	9-pin mini-DIN	

pH/ISE Module (VSTAR-ISE) 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 6
	<b>Calibration Editing</b>	Yes
	<b>Adjustable ISO Point</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 4 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 6
	<b>Calibration Editing</b>	Yes
	<b>Adjustable ISO Point</b>	Yes
	<b>Calibration Features</b>	Timed end point, linear point to point, non-linear selectable auto-blank, low concentration range stability
	<b>Incremental Techniques</b>	Single known addition & subtraction, double known addition & subtraction, single analyte addition & subtraction
	<b>Advanced Features</b>	Displays electrode type, temperature compensation
<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>Inputs</b>	pH/ISE: BNC, reference pin ATC: 8-pin mini-DIN	



Orion VERSA STAR meters can be customized to display only the information that you need.



### Conductivity Module (VSTAR-CND) Specifications

<b>Conductivity</b>	<b>Range</b>	0.001 $\mu$ S to 3000 mS
	<b>Resolution</b>	0.001 $\mu$ S minimum; 4 significant figures minimum
	<b>Relative Accuracy</b>	0.5 % reading $\pm$ 1 digit
	<b>Reference Temperature</b>	5, 10, 15, 20, 25 $^{\circ}$ C
	<b>Temperature Compensation</b>	Linear (0 to 10.0 %/ $^{\circ}$ C), nLn, nLFu, EP
	<b>Compatible Cell Constants</b>	0.001 to 199.9
	<b>Calibration Points</b>	Up to 6 points
	<b>Calibration Editing</b>	Yes
<b>Resistivity</b>	<b>Range</b>	2 ohm to 100 meg-ohm
	<b>Resolution</b>	2 ohms-cm
	<b>Relative Accuracy</b>	0.5 % reading $\pm$ 1 digit
<b>Salinity</b>	<b>Type</b>	Practical salinity or natural sea water
	<b>Range</b>	0.01 to 80.0 ppt NaCl equivalent; 0.01 to 42 ppt practical salinity
	<b>Resolution</b>	0.01
	<b>Relative Accuracy</b>	$\pm$ 0.1
<b>TDS</b>	<b>Range</b>	0 to 200 ppt
	<b>Resolution</b>	4 significant digits
	<b>Relative Accuracy</b>	$\pm$ 0.5 % reading $\pm$ 1 digit
	<b>TDS Factor Range</b>	Linear 0.01 to 10.00
<b>Temperature</b>	<b>Range</b>	-5 to 105 $^{\circ}$ C, 23 to 221 $^{\circ}$ F
	<b>Resolution</b>	0.1
	<b>Relative Accuracy</b>	$\pm$ 0.1
	<b>Offset Calibration</b>	1 point
<b>Input</b>	8-pin mini-DIN	

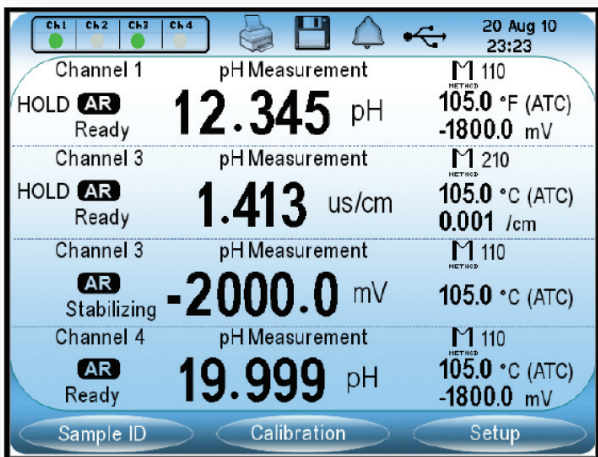
### pH/LogR Module (VSTAR-LR) Specifications

<b>pH</b>	<b>Range</b>	-2.000 to 20.000
	<b>Resolution</b>	0.1, 0.01, 0.001
	<b>Relative Accuracy</b>	$\pm$ 0.002
	<b>Calibration Points</b>	Up to 6
	<b>Calibration Editing</b>	Yes
	<b>Adjustable ISO Point</b>	Yes
<b>mV/RmV</b>	<b>Range</b>	$\pm$ 2000.0 mV
	<b>Resolution</b>	0.1
	<b>Relative Accuracy</b>	$\pm$ 0.2 mV or $\pm$ 0.05 % of reading whichever is greater
	<b>E<sub>H</sub> ORP Mode</b>	Yes
<b>LogR Temperature</b>	<b>Range</b>	0 to 100 $^{\circ}$ C, 32 to 212 $^{\circ}$ F
	<b>Resolution</b>	0.1
	<b>Relative Accuracy</b>	$\pm$ 0.5
	<b>Resistance Range</b>	0 to 6000 M $\Omega$
	<b>Resistance Resolution</b>	0.1 M $\Omega$ up to 1999.9 M $\Omega$ , 1 M $\Omega$ above 1999.9 M $\Omega$
	<b>Offset Calibration</b>	1 point
<b>Calibration Options</b>	ATC probe, NIST reference	
<b>Temperature Measurement without LogR In-Use</b>	<b>Range</b>	-5 to 105 $^{\circ}$ C, 23 to 221 $^{\circ}$ F
	<b>Resolution</b>	0.1
	<b>Relative Accuracy</b>	$\pm$ 0.1
<b>Offset Calibration</b>	1 point	
<b>Inputs</b>	pH: BNC, reference pin ATC: 8-pin mini-DIN	

### Orion VERSA STAR Meter Specifications

<b>Maximum number of modules</b>	4	
<b>Methods</b>	Up to 10	
<b>Datalogging</b>	<b>Number of Points</b>	2000 with time and date stamp
	<b>Log Function</b>	Manual, AUTO-READ™, timed interval, one timed reading
	<b>Log Edit</b>	Delete individual points, group of points or all
<b>Communication Ports</b>	One RS232, two USB ports (one client, one host)	
<b>Orion Star Stirrer Probe Ports</b>	2	
<b>BOD Calculations</b>	BOD, DOUR & SOUR with PC software	
<b>Power</b>	Universal, AC power adapter, 90-260 VAC, 50-60 Hz	

Meter display can show all four channels simultaneously or select the format of channels you wish to display.





Ordering Information

Cat. No.	Description
<b>VSTAR00</b>	<b>Orion VERSA STAR Benchtop Meter</b> - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR10</b>	<b>Orion VERSA STAR pH Benchtop Meter Set</b> - Orion VERSA STAR meter with pH/temperature module - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR12</b>	<b>Orion VERSA STAR pH Benchtop Meter Kit</b> - Orion VERSA STAR meter with pH/temperature module - 8302BNUMD Orion ROSS Triode pH/ATC probe - 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>VSTAR20</b>	<b>Orion VERSA STAR Conductivity Benchtop Meter Set</b> - Orion VERSA STAR meter - Orion VERSA STAR conductivity/temperature module - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR22</b>	<b>Orion VERSA STAR Conductivity Benchtop Meter Kit</b> - Orion VERSA STAR meter - Orion VERSA STAR conductivity/temperature module - 013005MD Orion DuraProbe conductivity cell, K=0.475 - 011007 conductivity standard, 1413 µS, 5x60 mL - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR30</b>	<b>Orion VERSA STAR RDO/Dissolved Oxygen Benchtop Meter Set</b> - Orion VERSA STAR meter - Orion VERSA STAR dissolved oxygen/temperature module - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR32</b>	<b>Orion VERSA STAR RDO/Dissolved Oxygen Benchtop Meter Kit</b> - Orion VERSA STAR meter - Orion VERSA STAR dissolved oxygen/temperature module - 083005MD Orion polarographic DO probe - 080017 calibration sleeve for DO probe - 080513 DO probe maintenance kit - 970802 BOD funnel/stirrer - 080360 BOD adapter - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR40A</b>	<b>Orion VERSA STAR pH/ISE Benchtop Meter Set</b> - Orion VERSA STAR meter - Orion VERSA STAR pH/ISE/temperature module - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR40A2</b>	<b>Orion VERSA STAR pH/ISE Benchtop Meter Kit</b> - Orion VERSA STAR meter - Orion VERSA STAR pH/ISE/temperature module - 8102BNUMD Orion ROSS Ultra pH electrode - 096019 Orion Star stirrer probe - 927007MD ATC probe, stainless steel - 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>VSTAR40B</b>	<b>Orion VERSA STAR Benchtop Meter with Two pH/ISE Modules</b> - Orion VERSA STAR meter - Two Orion VERSA STAR pH/ISE/temperature modules - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR40B2</b>	<b>Orion VERSA STAR Benchtop Meter with Two pH/ISE Modules Kit</b> - Orion VERSA STAR meter - Two Orion VERSA STAR pH/ISE/temperature modules - 8102BNUMD Orion ROSS Ultra pH electrode - 096019 Orion Star stirrer probe - 927007MD ATC probe, stainless steel - ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle) - Two electrode arms with redesigned holders - Universal power adapter
<b>VSTAR50</b>	<b>Orion VERSA STAR pH/Conductivity Benchtop Meter Set</b> - Orion VERSA STAR meter - Orion VERSA STAR pH/temperature module - Orion VERSA STAR conductivity/temperature module - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR52</b>	<b>Orion VERSA STAR pH/Conductivity Benchtop Meter Kit</b> - Orion VERSA STAR meter with pH/temperature module - Orion VERSA STAR conductivity/temperature module - 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe - 013005MD Orion DuraProbe conductivity cell, K=0.475 - 810199 ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle) - 011007 conductivity standard, 1413 µS, 5x60 mL - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR80</b>	<b>Orion VERSA STAR pH with LogR Benchtop Meter Set</b> - Orion VERSA STAR meter - Orion VERSA STAR pH/temperature with LogR technology module - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR82</b>	<b>Orion VERSA STAR pH Benchtop Meter Kit</b> - Orion VERSA STAR meter - Orion VERSA STAR pH/temperature with LogR technology module - 8172BNX Orion ROSS Sure-Flow pH electrode - 927007MD ATC probe, stainless steel - ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle) - 810007 ROSS fill solution, 5x60 mL - Electrode arm with redesigned holder - Universal power adapter
<b>VSTAR90</b>	<b>Orion VERSA STAR pH/ISE/Conductivity/RDO/Dissolved Oxygen Benchtop Multiparameter Meter Set</b> - Orion VERSA STAR meter - Orion VERSA STAR pH/ISE/temperature module - Orion VERSA STAR conductivity/temperature module - Orion VERSA STAR dissolved oxygen/temperature module - Electrode arm with redesigned holder - Universal power adapter

<b>VSTAR91</b>	<p><b>Orion VERSA STAR pH/ISE/Conductivity/RDO/ Dissolved Oxygen Benchtop Multiparameter Meter Set</b></p> <ul style="list-style-type: none"> <li>- Orion VERSA STAR meter</li> <li>- Two Orion VERSA STAR pH/ISE/temperature modules</li> <li>- Orion VERSA STAR conductivity/temperature module</li> <li>- Orion VERSA STAR dissolved oxygen/temperature module</li> <li>- Two 096019 Orion Star stirrer probes</li> <li>- Two electrode arms with redesigned holders</li> <li>- Universal power adapter</li> </ul>
<b>VSTAR92</b>	<p><b>Orion VERSA STAR pH/ISE/Conductivity/RDO/ Dissolved Oxygen Benchtop Multiparameter Meter Set</b></p> <ul style="list-style-type: none"> <li>- Orion VERSA STAR meter</li> <li>- Orion VERSA STAR pH/ISE/temperature module</li> <li>- Orion VERSA STAR conductivity/temperature module</li> <li>- Orion VERSA STAR dissolved oxygen/temperature module</li> <li>- 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe</li> <li>- 013005MD Orion DuraProbe conductivity cell, K=0.475</li> <li>- 083005MD Orion polarographic DO probe</li> <li>- 080017 calibration sleeve for DO probe</li> <li>- 080513 DO probe maintenance kit</li> <li>- 970802 BOD funnel/stirrer</li> <li>- 080360 BOD adapter</li> <li>- 810199 ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle)</li> <li>- 011007 conductivity standard, 1413 µS, 5x60 mL</li> <li>- Electrode arm with redesigned holder</li> <li>- Universal power adapter</li> </ul>
<b>VSTAR93</b>	<p><b>Orion VERSA STAR pH/ISE/Conductivity/RDO/ Dissolved Oxygen Ultimate Benchtop Multiparameter Meter Set</b></p> <ul style="list-style-type: none"> <li>- Orion VERSA STAR meter</li> <li>- Orion VERSA STAR pH/ISE/temperature module</li> <li>- Orion VERSA STAR conductivity/temperature module</li> <li>- Orion VERSA STAR dissolved oxygen/temperature module</li> <li>- 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe</li> <li>- 013005MD Orion DuraProbe conductivity cell, K=0.475</li> <li>- 083005MD Orion polarographic DO probe</li> <li>- Two 096019 Orion Star stirrer probes</li> <li>- 080017 calibration sleeve for DO probe</li> <li>- 080513 DO probe maintenance kit</li> <li>- 970802 BOD funnel/stirrer</li> <li>- 080360 BOD adapter</li> <li>- 810199 ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle)</li> <li>- 011007 conductivity standard, 1413 µS, 5x60 mL</li> <li>- Two electrode arms with redesigned holders</li> <li>- Universal power adapter</li> </ul>
<b>Accessories</b>	
<b>VSTAR-PH</b>	Orion VERSA STAR pH/temperature module
<b>VSTAR-ISE</b>	Orion VERSA STAR pH/ISE/temperature module
<b>VSTAR-CND</b>	Orion VERSA STAR conductivity/temperature module
<b>VSTAR-RD</b>	Orion VERSA STAR RDO/DO/temperature module
<b>VSTAR-LR</b>	Orion VERSA STAR pH/temperature with LogR technology module

<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>STARA-PWR</b>	Replacement universal power adapter for Orion VERSA STAR meters
<b>096019</b>	Orion Star stirrer probe
<b>8102BNUWP</b>	Orion ROSS Ultra pH electrode, refillable, glass body
<b>8172BNWP</b>	Orion ROSS Sure-Flow pH electrode, glass body
<b>8156BNUWP</b>	Orion ROSS Ultra refillable pH electrode, epoxy body
<b>8157BNUMD</b>	Orion ROSS Triode pH/ATC electrode, refillable, epoxy body
<b>8302BNUMD</b>	Orion ROSS Triode pH/ATC electrode, refillable, glass body
<b>8172BNX</b>	Orion ROSS Sure-Flow pH electrode, glass body
<b>8611BNWP</b>	Orion ROSS sodium combination ISE
<b>927007MD</b>	Orion ATC probe, stainless steel body
<b>927005MD</b>	Orion ATC probe, epoxy body
<b>013005MD</b>	Orion DuraProbe conductivity cell, 4-cell, K=0.475
<b>013016MD</b>	Orion conductivity cell, flow through, K=0.1
<b>083005MD</b>	Orion dissolved oxygen probe, polarographic
<b>086030MD</b>	Orion auto-stir DO/BOD probe, polarographic
<b>087010MD</b>	Orion RDO optical DO probe, 3 m cable
<b>810199</b>	Orion ROSS all-in-one pH buffer kit
<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 4.01 buffer, 475 mL
<b>011008</b>	Orion conductivity standard, 100 µS/cm, 5x60 mL bottles
<b>011007</b>	Orion conductivity standard, 1413 µS/cm, 5x60 mL bottles
<b>011006</b>	Orion conductivity standard, 12.9 mS/cm, 5x60 mL bottles
<b>1010001</b>	Orion conductivity calibration resistor kit
<b>9512HPBNWP</b>	Orion high-performance ammonia ISE
<b>9512BNWP</b>	Orion standard ammonia ISE
<b>951007</b>	Ammonia standard, 1000 ppm, 475 mL
<b>951210</b>	Low-level ammonia ISA
<b>951211</b>	Ammonia ISA, 475 mL
<b>951209</b>	Fill solution for Orion high-performance ammonia ISE, 60 mL
<b>951202</b>	Fill solution for standard ammonia ISE, 60 mL
<b>951213</b>	Ammonia ISE storage solution
<b>9609BNWP</b>	Orion fluoride combination ISE
<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
<b>8611BNWP</b>	Orion ROSS sodium combination ISE

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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S-VERSASTAR-E-0811-RevA

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