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:

Description

- 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 D0 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
 - the most advanced electrode diagnostics
 - no temperature sensor needed to get temperaturecompensated pH readings



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 (VST	TAR-PH) Specifications	
рH	Range	-2.000 to 20.000
	Resolution	0.1, 0.01, 0.001
	Relative Accuracy	±0.002
	Calibration Points	Up to 6
	Calibration Editing	Yes
	Adjustable ISO Point	Yes
mV/RmV	Range	±2000.0 mV
	Resolution	0.1
	Relative Accuracy	±0.2 mV or ±0.05 % of reading whichever is greater
	E _H ORP Mode	Yes
Temperature	Range	-5 to 105 °C, 23 to 221 °F
	Resolution	0.1
	Relative Accuracy	±0.1
	Offset Calibration	1 point
Inputs		pH: BNC, reference pin ATC: 8-pin mini-DIN

Dissolved Concentration - Polarographic		
Owner	Concentration - Polarographic	
Oxygen Range 0 to 90 mg/L		
Resolution 0.01, 0.1		
Relative Accuracy ±0.2		
% Saturation - Polarographic		
Range 0 to 600		
Resolution 0.1, 1		
Relative Accuracy ±2 %		
Concentration - RDO		
Range 0 to 50 mg/L		
Resolution 0.01, 0.1		
Relative Accuracy ±0.1 mg/L up to 8 mg/L; ±0.2 mg/L from 8 to 20 m 10 % of reading, 20 to 50	ıg/L;	
% Saturation - RDO		
Range 0 to 500		
Resolution 0.1, 1		
Relative Accuracy ±2 %		
Automatic 450.0 to 850.0 mm Hg Barometric Pressure Correction		
Salinity Factor Automatic when used w Correction conductivity module and probe or manual; 0 to 45		
CalibrationWater saturated air,Featuresair saturated water, many (Winkler) and zero point	ual	
Probe Type Polarographic or RDO		
Temperature Range 0 to 50 °C, 32 to 122 °F		
Resolution 0.1		
Relative Accuracy ±0.1		
Offset Calibration 1 point		
Input 9-pin mini-DIN		

pH/ISE Module (VSTAR-ISE) Specifications		
рН	Range	-2.000 to 20.000
	Resolution	0.1, 0.01, 0.001
	Relative Accuracy	±0.002
	Calibration Points	Up to 6
	Calibration Editing	Yes
	Adjustable ISO Point	Yes
mV/RmV	Range	±2000.0 mV
	Resolution	0.1
	Relative Accuracy	±0.2 mV or ±0.05 % of reading whichever is greater
	E _H ORP Mode	Yes
ISE	Range	0 to 19999
	Resolution	Up to 4 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 6
	Calibration Editing	Yes
	Adjustable ISO Point	Yes
	Calibration Features	Timed end point, linear point to point, non-linear selectable auto-blank, low concentration range stability
	Incremental Techniques	Single known addition & subtraction, double known addition & subtraction, single analyte addition & subtraction
	Advanced Features	Displays electrode type, temperature compensation
Temperature	Range	-5 to 105 °C, 23 to 221 °F
	Resolution	0.1
	Relative Accuracy	±0.1
	Offset Calibration	1 point
Inputs		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 Mo	odule (VSTAR-CND) Spe	ecifications
Conductivity	Range	0.001 μS to 3000 mS
	Resolution	0.001 µS minimum; 4 significant figures minimum
	Relative Accuracy	0.5 % reading ±1 digit
	Reference Temperature	5, 10, 15, 20, 25 °C
	Temperature Compensation	Linear (0 to 10.0 %/°C), nLn, nLFu, EP
	Compatible Cell Constants	0.001 to 199.9
	Calibration Points	Up to 6 points
	Calibration Editing	Yes
Resistivity	Range	2 ohm to 100 meg-ohm
	Resolution	2 ohms-cm
	Relative Accuracy	0.5 % reading ±1 digit
Salinity	Туре	Practical salinity or natural sea water
	Range	0.01 to 80.0 ppt NaCl equivalent; 0.01 to 42 ppt practical salinity
	Resolution	0.01
	Relative Accuracy	±0.1
TDS	Range	0 to 200 ppt
	Resolution	4 significant digits
	Relative Accuracy	±0.5 % reading ±1 digit
	TDS Factor Range	Linear 0.01 to 10.00
Temperature	Range	-5 to 105 °C, 23 to 221 °F
	Resolution	0.1
	Relative Accuracy	±0.1
	Offset Calibration	1 point
Input		8-pin mini-DIN

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

Chi Ch2 Ch3 Ch		20 Aug 10 23:23
Channel 1	pH Measurement	M 110
HOLD AR Ready	12.345 pH	105.0 °F (ATC) -1800.0 mV
Channel 3	pH Measurement	M 210
HOLD AR Ready	1.413 us/cm	105.0 °C (ATC) 0.001 /cm
Channel 3	pH Measurement	M 110
Otabilizing	2000.0 mV	105.0 °C (ATC)
Channel 4	pH Measurement	M 110
AR Ready	19.999 ₽Н	105.0 °C (ATC) -1800.0 mV
Sample ID	Calibration	Setup

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

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

Cat. No.	Description
VSTAR00	Orion VERSA STAR Benchtop Meter - Electrode arm with redesigned holder - Universal power adapter
VSTAR10	Orion VERSA STAR pH Benchtop Meter Set - Orion VERSA STAR meter with pH/temperature module - Electrode arm with redesigned holder - Universal power adapter
VSTAR12	Orion VERSA STAR pH Benchtop Meter Kit 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
VSTAR20	Orion VERSA STAR Conductivity Benchtop Meter Set - Orion VERSA STAR meter - Orion VERSA STAR conductivity/ temperature module - Electrode arm with redesigned holder - Universal power adapter
VSTAR22	Orion VERSA STAR Conductivity Benchtop Meter Kit - 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
VSTAR30	Orion VERSA STAR RDO/Dissolved Oxygen Benchtop Meter Set - Orion VERSA STAR meter - Orion VERSA STAR dissolved oxygen/ temperature module - Electrode arm with redesigned holder - Universal power adapter
VSTAR32	Orion VERSA STAR RDO/Dissolved Oxygen Benchtop Meter Kit - 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
VSTAR40A	Orion VERSA STAR pH/ISE Benchtop Meter Set - Orion VERSA STAR meter - Orion VERSA STAR pH/ISE/temperature module - Electrode arm with redesigned holder - Universal power adapter
VSTAR40A2	Orion VERSA STAR pH/ISE Benchtop Meter Kit 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

Orion VERSA STAR Benchtop Meter with Two **VSTAR40B** pH/ISE Modules Orion VERSA STAR meter -Two Orion VERSA STAR pH/ISE/ temperature modules - Electrode arm with redesigned holder - Universal power adapter Orion VERSA STAR Benchtop Meter with Two VSTAR40B2 pH/ISE Modules Kit - 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 VSTAR50 Orion VERSA STAR pH/Conductivity Benchtop Meter Set - Orion VERSA STAR meter - Orion VERSA STAR pH/temperature module - Orion VERSA STAR conductivity/temperature module - Electrode arm with redesigned holder - Universal power adapter Orion VERSA STAR pH/Conductivity Benchtop VSTAR52 Meter Kit - 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, - 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 **VSTAR80** Orion VERSA STAR pH with LogR Benchtop Meter Set - Orion VERSA STAR meter - Orion VERSA STAR pH/temperature with LogR technology module - Electrode arm with redesigned holder - Universal power adapter VSTAR82 Orion VERSA STAR pH Benchtop Meter Kit - 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 VSTAR90 Orion VERSA STAR pH/ISE/Conductivity/RDO/ Dissolved Oxygen Benchtop Multiparameter Meter Set - Orion VERSA STAR meter - Orion VERSA STAR pH/ISE/temperature module - Orion VERSA STAR conductivity/temperature module - Orion VERSA STAR dissolved oxygen/

temperature module

- Universal power adapter

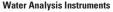
- Electrode arm with redesigned holder

VSTAR91	Orion VERSA STAR pH/ISE/Conductivity/RDO/ Dissolved Oxygen Benchtop Multiparameter Meter Set - Orion VERSA STAR meter - Two Orion VERSA STAR pH/ISE/temperature modules - Orion VERSA STAR conductivity/temperature module - Orion VERSA STAR dissolved oxygen/
	temperature module
	- Two 096019 Orion Star stirrer probes - Two electrode arms with redesigned holders
	- Universal power adapter
VSTAR92	Orion VERSA STAR pH/ISE/Conductivity/RDO/ Dissolved Oxygen Benchtop Multiparameter Meter Set
	 Orion VERSA STAR meter Orion VERSA STAR pH/ISE/temperature module Orion VERSA STAR conductivity/temperature module Orion VERSA STAR dissolved oxygen/ temperature module 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe 013005MD Orion DuraProbe conductivity cell, K=0.475 083005MD Orion polarographic DO probe 080017 calibration sleeve for DO probe 080513 DO probe maintenance kit 970802 BOD funnel/stirrer 080360 BOD adapter 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
VSTAR93	Orion VERSA STAR pH/ISE/Conductivity/RDO/ Dissolved Oxygen Ultimate Benchtop Multiparameter Meter Set - Orion VERSA STAR meter
	 Orion VERSA STAR pH/ISE/temperature module Orion VERSA STAR pH/ISE/temperature module Orion VERSA STAR conductivity/temperature module Orion VERSA STAR dissolved oxygen/temperature module 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe 013005MD Orion puraProbe conductivity cell, K=0.475 083005MD Orion polarographic DO probe Two 096019 Orion Star stirrer probes 080017 calibration sleeve for DO probe 080513 DO probe maintenance kit 970802 BOD funnel/stirrer 080360 BOD adapter 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 Two electrode arms with redesigned holders Universal power adapter
Accessories	- Orion VERSA STAR pH/ISE/temperature module - Orion VERSA STAR conductivity/temperature module - Orion VERSA STAR dissolved oxygen/ temperature module - 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe - 013005MD Orion DuraProbe conductivity cell, K=0.475 - 083005MD Orion polarographic DO probe - Two 096019 Orion Star stirrer probes - 080017 calibration sleeve for DO probe - 080513 DO probe maintenance kit - 970802 BOD funnel/stirrer - 080360 BOD adapter - 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 - Two electrode arms with redesigned holders
Accessories VSTAR-PH	- Orion VERSA STAR pH/ISE/temperature module - Orion VERSA STAR conductivity/temperature module - Orion VERSA STAR dissolved oxygen/ temperature module - 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe - 013005MD Orion DuraProbe conductivity cell, K=0.475 - 083005MD Orion polarographic DO probe - Two 096019 Orion Star stirrer probes - 080017 calibration sleeve for DO probe - 080513 DO probe maintenance kit - 970802 BOD funnel/stirrer - 080360 BOD adapter - 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 - Two electrode arms with redesigned holders
	 Orion VERSA STAR pH/ISE/temperature module Orion VERSA STAR conductivity/temperature module Orion VERSA STAR dissolved oxygen/temperature module 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe 013005MD Orion DuraProbe conductivity cell, K=0.475 083005MD Orion polarographic DO probe Two 096019 Orion Star stirrer probes 080017 calibration sleeve for DO probe 080513 DO probe maintenance kit 970802 BOD funnel/stirrer 080360 BOD adapter 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 Two electrode arms with redesigned holders Universal power adapter
VSTAR-PH	 Orion VERSA STAR pH/ISE/temperature module Orion VERSA STAR conductivity/temperature module Orion VERSA STAR dissolved oxygen/temperature module 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe 013005MD Orion DuraProbe conductivity cell, K=0.475 083005MD Orion polarographic DO probe Two 096019 Orion Star stirrer probes 080017 calibration sleeve for DO probe 080513 DO probe maintenance kit 970802 BOD funnel/stirrer 080360 BOD adapter 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 Two electrode arms with redesigned holders Universal power adapter Orion VERSA STAR pH/temperature module
VSTAR-PH VSTAR-ISE	- Orion VERSA STAR pH/ISE/temperature module - Orion VERSA STAR conductivity/temperature module - Orion VERSA STAR dissolved oxygen/ temperature module - 8157BNUMD Orion ROSS Ultra Triode pH/ATC probe - 013005MD Orion DuraProbe conductivity cell, K=0.475 - 083005MD Orion polarographic DO probe - Two 096019 Orion Star stirrer probes - 080017 calibration sleeve for DO probe - 080513 DO probe maintenance kit - 970802 BOD funnel/stirrer - 080360 BOD adapter - 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 - Two electrode arms with redesigned holders - Universal power adapter Orion VERSA STAR pH/temperature module

STARA-BEA	Benchtop electrode arm for Orion Star A-series meters	
STARA-HB	Freestanding base for use with Orion Star A-series benchtop electrode arm	
STARA-PWR	Replacement universal power adapter for Orion VERSA STAR meters	
096019	Orion Star stirrer probe	
8102BNUWP	Orion ROSS Ultra pH electrode, refillable, glass body	
8172BNWP	Orion ROSS Sure-Flow pH electrode, glass body	
8156BNUWP	Orion ROSS Ultra refillable pH electrode, epoxy body	
8157BNUMD	Orion ROSS Triode pH/ATC electrode, refillable, epoxy body	
8302BNUMD	Orion ROSS Triode pH/ATC electrode, refillable, glass body	
8172BNX	Orion ROSS Sure-Flow pH electrode, glass body	
8611BNWP	Orion ROSS sodium combination ISE	
927007MD	Orion ATC probe, stainless steel body	
927005MD	Orion ATC probe, epoxy body	
013005MD	Orion DuraProbe conductivity cell, 4-cell, K=0.475	
013016MD	Orion conductivity cell, flow through, K=0.1	
083005MD	Orion dissolved oxygen probe, polarographic	
086030MD	Orion auto-stir DO/BOD probe, polarographic	
087010MD	Orion RDO optical DO probe, 3 m cable	
810199	Orion ROSS all-in-one pH buffer kit	
910104	Orion pH 4.01 buffer, 475 mL	
910107	Orion pH 7.00 buffer, 475 mL	
910110	Orion pH 4.01 buffer, 475 mL	
011008	Orion conductivity standard, 100 μ S/cm, 5x60 mL bottles	
011007	Orion conductivity standard, 1413 μ S/cm, 5x60 mL bottles	
011006	Orion conductivity standard, 12.9 mS/cm, 5x60 mL bottles	
1010001	Orion conductivity calibration resistor kit	
9512HPBNWP	Orion high-performance ammonia ISE	
9512BNWP	Orion standard ammonia ISE	
951007	Ammonia standard, 1000 ppm, 475 mL	
951210	Low-level ammonia ISA	
951211	Ammonia ISA, 475 mL	
951209	Fill solution for Orion high-performance ammonia ISE, 60 mL	
951202	Fill solution for standard ammonia ISE , 60 mL	
951213	Ammonia ISE storage solution	
9609BNWP	Orion fluoride combination ISE	
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	
8611BNWP	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.

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S-VERSASTAR-E-1011-RevB

