



Thermo Scientific Orion VERSA STAR 50

pH/Conductivity Benchtop Meters

Ideal for checking solution conductivity and follow-up pH testing. The large color display is easy to read and easy on the eyes. Prompts make accuracy and repeatability easy for even the most complicated testing. If you need to add more channels for more or obtain more parameters from the same, simply remove the protective individual channel cover and add the new module.

Features and Benefits

- Versatility is the name of the game
 - Customize the display to show only the information you need
 - Change out modules to create the meter you need at any time
- Up to 6 point pH calibration with automatic recognition for USA/NIST and DIN buffers and electrode identification
- Fix errors without a complete recalibration with the calibration editing function
- Conductivity, TDS, salinity or resistivity capabilities
 - Selectable reading reference temperatures of 5, 10, 15, 20 or 25 $^{\circ}\mathrm{C}$
 - Linear, non-linear, nLFu or USP/EP curve options to get the most accurate conductivity result for your sample and temperature
 - Choice of practical salinity or natural sea water curves for salinity readings
 - Linear or ISO/EN 27888 curves for TDS
- Anyone can use this meter with its plain language screen prompts, function 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 or just once with the single-shot mode
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Stores up to 10 methods per channel allow for customized procedures to differentiate between tests and/or users
- Two USB and a RS232 port makes for easy data transfer and updating meter software
- Includes data analysis software for easy transferring of stored results or real-time viewing
- Control sample mixing directly from the meter without a separate stir plate when using with the Orion Star stirrer probe (cat. no. 096019, sold separately)
- Increase your productivity with two stirrer probe ports, add stirrers and modules to analyze two separate samples at the same time

- 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 through the included universal power adapter
- IP54-rated housing handles splashes and cleans up easily
- 3 year meter replacement warranty

Product Specifications - Orion VERSA STAR Meter

		CE TUV EPA
Maximum Number of Modules		4
Methods		Up to 10
Datalogging	Number of Datalogs	2000 with time and date stamp
	Log Function	Manual, AUTO-READ™, timed interval, single timed reading
Communication Ports		One RS232, two USB ports (one client, one host)
Orion Star Stirrer Probe Ports		2
Power		Universal, AC power adapter, 90-260 VAC, 50-60 Hz

Product Specifications - pH Module (VSTAR-PH)

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			CE TUV EPA
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	
	Range	±2000.0 mV	
mV/Rel mV/ ORP	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	
Innuto	pH/ISE	BNC, reference pin	
Inputs	ATC	8-pin mini-DIN	



Product Specifications - Conductivity Module (VSTAR-CND) Meter Ordering Information

Product Specifications – Conductivity Module (VSTAR-CN		
		CE TUV EPA
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, USP/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
	Туре	Practical salinity or natural sea water
	Range	0.01 to 80.0 psu 0.01 to 42 ppt sea water
Salinity	Resolution	0.01
	Relative Accuracy	±0.1
	Range	0 to 200 ppt
	Resolution	4 significant digits
TDS	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
Inputs		8-pin mini-DIN

Cat. No.	Description
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
VSTAR52	Orion VERSA STAR pH/Conductivity Benchtop 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, 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, 5 x 60 mL Electrode arm with redesigned holder Universal power adapter

Accessories

Cat. No.	Description
VSTAR-PH	
	Orion VERSA STAR pH/temperature module
VSTAR-ISE	Orion VERSA STAR pH/ISE/temperature module
VSTAR-CND	Orion VERSA STAR conductivity/temperature module
VSTAR-RD	Orion VERSA STAR RDO/DO/temperature module
VSTAR-LR	Orion VERSA STAR pH/temperature with LogR technology 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
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
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 10.01 buffer, 475 mL
011008	Orion conductivity standard, 100 µS/cm, 5 x 60 mL bottles
011007	Orion conductivity standard, 1413 µS/cm, 5 x 60 mL bottles
011006	Orion conductivity standard, 12.9 mS/cm, 5 x 60 mL bottles
1010001	Orion conductivity calibration resistor kit



рН 📉

ISE 🔣

ORP

Cond

DDO

Temp