



Thermo Scientific Orion Star A215 pH/Conductivity Benchtop Meter

The Thermo Scientific Orion Star A215 pH/Conductivity Benchtop Meter is the ideal choice for any pharmacology lab. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows individual pH/mV/RmV or conductivity/TDS/salinity/resistivity results with temperature, or all results at once. Additional helpful information includes electrode status, time, date, sample ID, user ID and calibration. For advanced users, features such as stability and averaging choices provide additional options.



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 and calibration editing to fix errors without a complete recalibration
- Selectable cell constant allows for use with 2- or 4-cell conductivity cells
- For accurate conductivity results, selectable reading reference temperatures of 5, 10, 15, 20 or 25 °C with linear, non-linear nFLn, non-linear nFLu, or EP (USP) curve options
- Choice of practical salinity or natural sea water curves for salinity readings
- 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

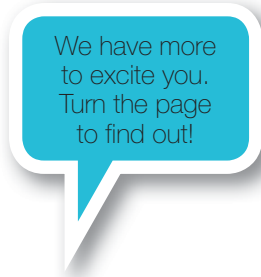
CE TUV FCC			
pH	Range	-2.000 to 20.000	
	Resolution	0.1, 0.01, 0.001	
	Relative Accuracy	±0.002	
	Calibration Points	Up to 5	
	Calibration Editing	Yes	
mV/Rel mV/ ORP	Range	±2000.0 mV	
	Resolution	0.1	
	Relative Accuracy	±0.2 mV or ±0.05 % of reading whichever is greater	
	E _o ORP Mode	Yes	
Conductivity	Range	0.001 µS to 3000 mS	
	Resolution	0.001 µS minimum; 4 significant figures minimum	
	Relative Accuracy	±0.5 % of reading ±1 digit for conductivity > 3 µS ±0.5 % of reading ±0.01 µS for conductivity ≤ 3 µS	
	Reference Temperature	5, 10, 15, 20, 25 °C (default)	
	Temperature Compensation	Linear (0 to 10.0 %/°C), non-linear nFLn & nFLu, EP (USP) or off	
	Compatible Cell Constants	0.001 to 199.9	
	Calibration Points	Up to 5 points	
	Calibration Editing	Yes	
	Resistivity	Range	2 ohm to 100 meg-ohm
		Resolution	1 ohm-cm or 0.1 meg-ohm, auto-ranging
Relative Accuracy		0.5 % reading ±1 digit	
Salinity	Type	Practical salinity or natural sea water	
	Range	0.06 to 80 psu 0.05 to 42 ppt sea water	
	Resolution	0.01	
TDS	Relative Accuracy	±0.1	
	TDS Factor Range	Linear 0.02 to 9.99, default 0.49	
	Range	0 to 200 ppt	
	Resolution	4 significant digits	
Temperature	Relative Accuracy	0.5 % reading ±1 digit	
	Range	-5 to 105 °C, 23 to 221 °F	
	Resolution	0.1	
	Offset Calibration	±0.1	
Datalogging	Number of Datalogs	1 point	
	Log Function	2000 with time and date stamp Manual, ready (includes AUTO-READ™), timed	
Inputs	pH Electrode	BNC, reference pin	
	Conductivity with Temperature Probe or 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
STARA2150	Orion Star A215 pH/Conductivity Benchtop Multiparameter Meter - Electrode arm with redesigned holder - Universal power adapter
STARA2155	Orion Star A215 pH/Conductivity Benchtop Multiparameter Meter Kit - 8157BNUMD Orion ROSS Ultra Triode pH/ATC electrode - 013005MD Orion DuraProbe conductivity cell - ROSS solution kit (475 mL each of pH 4, 7 and 10 buffers; storage solution; cleaning solution; and pH electrode storage bottle) - 011007 Orion 1413 µS conductivity standard, 5 x 60 mL - Electrode arm with redesigned holder - Universal power adapter

Accessories

Cat. No.	Description
096019	Orion Star stirrer probe
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
8302BNUMD	Orion ROSS Triode 3-in-1 pH/ATC probe, refillable, glass body
8102BNUWP	Orion ROSS Ultra refillable pH electrode, glass body
927007MD	Orion ATC probe, stainless steel
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
013005MD	Orion DuraProbe conductivity cell, 4-cell, K=0.475
013016MD	Orion 2-electrode conductivity cell with flow cell, K=0.1
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



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- pH ■
- ISE ■
- ORP ■
- Cond ■
- RDO ■
- DO ■
- Temp ■

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