

Orion® 4-Star Portable pH / ISE Meter

Highly Advanced *Waterproof* Series

3 Year Warranty

Item Number: 1215000



- Easy user friendly 3-button function
- Accepts Orion ISFET (Ion Selective Field Effect Transistor) electrodes
- Accepts Orion Ion Selective Electrodes (ISE) for direct reading
- Automatic or manual calibration with 1 to 5 calibration points
- Stores up to 10 methods with password protection

This waterproof, battery-operated Orion pH / ISE meter stands up to the most demanding quality control and general analysis applications and delivers over 2,000 hours of continuous operation.

Convenient Quick-Start Guide is located on the back of the Orion meter. The rugged Orion meter provides measurement of pH and ionic concentrations and offers a full complement of GLP-related features – including available 21 CFR Part 11 software option. Automatic calibration or 1 to 5 point manual calibration for pH and direct ion measurement ensures accuracy even at extremes of concentration. SMART STABILITY™ and SMART AVERAGING™ functions simplify the measurement process. You can record and store up to 10 setup parameters and calibrations and download additional methods and software updates via the Web.

Additional features

- IP67 waterproof (may be immersed for up to one hour with no water incursion)
- Waterproof BNC pH electrode and ISE connectors
- Manual ISE calibration with 1 to 5 calibration points
- Point-to-point ISE calibration, high and low concentration range
- Automatic blank correction and self-diagnostics; GLP IQ/OQ included
- 200 point datalogger which is downloadable to printer or computer via RS232 or USB accessories
- CE, CSA, UL, TÜV and FCC Class A limits approved

Specification

pH	Range:	-2.000 to 19.999 or 0 to 14 in aqueous solutions
	Resolution:	0.1/0.01/0.001
	Relative accuracy:	+/- 0.002
ISE	Range:	0 to 19900
	Units:	M, mg/L, %, ppb, or no units
	Resolution:	1, 2, or 3 significant digits
	Relative accuracy:	+/- 0.2mV or 0.05%, whichever is greater
	mV/RmV:	+/-1999.9
	Temperature:	-5 to 105°C
Communication:		Waterproof bi-directional RS232 – Stereo jack, optional USB interface cable
Power:		4xAA batteries, powerless data protection
Operating Temperature:		5 to 45 °C

Application Kits

Complete application kits including the Orion meter, electrode, standards, solutions and accessories are available for your convenience

Applications	Item Number
pH / ISE in General Application	1215001
Cyanide in Surface Fresh Water	1010124
ORP in Waste Water	1010112

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