

## Orion® 4-Star Portable pH / Conductivity Meter

Highly Advanced *Waterproof* Series

3 Year Warranty

Item Number: 1217000

- Easy user friendly 3-button function
- Meets all U.S. Pharmacopeia (USP) requirements
- Automatic or manual temperature compensation



This waterproof, battery-operated Orion conductivity meter stands up to the most demanding soil and water analysis applications and delivers over 2,000 hours of continuous operation. Convenient Quick-Start Guide is located on the back of the Orion meter. In addition to pH, the rugged meter displays conductivity, resistivity, salinity, TDS (Total Dissolved Solid) and temperature measurements and offers a full complement of GLP-related features—including available 21 CFR Part 11 software option. It accepts both 4-electrode and 2-electrode cells. SMART STABILITY™ and SMART AVERAGING™ functions simplify the measurement process. You can record and store up to 10 setup parameters and calibrations – a valuable feature for multi-user labs. 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 waterproof mini DIN locking conductivity probe connectors
- Automatic or manual pH calibration with 1 to 5 calibration points
- Auto-buffer-recognition of NIST/US and DIN buffers
- Automatic or manual temperature compensation
- Self-diagnostics; GLP IQ/OQ included
- 200 point datalogger which is downloadable to printer or computer via RS232 connection
- CE, CSA, UL, TÜV and FCC Class A limits approved

### Specification

<b>pH</b>	<b>Range:</b>	-2.000 to 19.999 or 0 to 14 in aqueous solutions
	<b>Resolution:</b>	0.1/0.01/0.001
	<b>Relative accuracy:</b>	+/- 0.002
<b>Conductivity</b>	<b>Range:</b>	0.000 to 3000 mS/cm, auto resolution with cell constant dependence
	<b>Resistivity:</b>	0.0001 to 100 Megohms
	<b>Salinity:</b>	0.01 to 80.0 ppt NaCl equivalent
	<b>TDS:</b>	0 to 19999
	<b>Reference temperature:</b>	15°, 20° or 25°(default), autoranging
	<b>Cell Constant:</b>	0.001 to 199.9
	<b>Temperature:</b>	-5 to 105°C
<b>Communication:</b>	Waterproof bi-directional RS232 – Stereo jack, optional USB interface cable	
<b>Power:</b>	4xAA batteries, powerless data protection	
<b>Operating Temperature:</b>	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 / Conductivity in General Application	1217001

Phone: (800) 462-1926 Fax: (818) 909-7057

Web: [www.pulseinstruments.net](http://www.pulseinstruments.net) Email: [support@pulseinstruments.net](mailto:support@pulseinstruments.net)