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Star Series Specifications



Orion 4-Star pH/DO

Portable Meter (Cat. No. 1216000)
Portable Meter Kit (Cat. No. 1216001)

- Durable, waterproof, IP67 meter stands up to the most demanding field applications while delivering over 2,000 hours of continuous operation.
- Salinity correction and automatic barometric pressure compensation
- SMART STABILITY™ and SMART AVERAGING™ functions for automatically optimized accuracy, precision and response time
- Storage of up to 10 password protected methods for easy retrieval of operation procedures
- Dissolved oxygen calibration to the Winkler Titration for BOD
- Simultaneous display of pH, DO and temperature measurements

Specifications	
pH	
Readout Range / Resolution	-2.000 to 19.999 or 0 to 14 in aqueous solutions / 0.1,0.01,0.001
Relative Accuracy	± 0.002
SMART STABILITY™ and SMART AVERAGING™	Resolution dependent / automatic
AUTO-CAL™ and/or Manual Calibration	1 to 5 points; US/NIST, DIN, and custom buffers recognized
mV	
Range – mV / RmV	± 1999.9
ORP	E _H autocalibration to standard hydrogen electrode
Resolution	0.1
Relative Accuracy	± 0.2 mV or 0.05%, whichever is greater
DO	
Range / Resolution Concentration	0.00 to 90.0 mg/L / 0.0/0.00
Range / Resolution % Saturation	0.0 to 600% / 0/0.0
Relative Accuracy Concentration / % Saturation	± 0.5% ±1 digit
SMART STABILITY™ and SMART AVERAGING™	Resolution dependent / automatic
Auto Calibration or Manual Input	Water Saturated Air and Air Saturated Water, Winkler
Calibration to Winkler Titration for BOD	Available as needed
Salinity Factor	0 to 45 ppt
Barometric Pressure Range	450 to 850 mm Hg
Probe Type	Polarographic
Temperature	
Range / Resolution	-5 to 105 °C / 0.1 up to 99.9 °C, 1.0 over 99.9 °C
Relative Accuracy	± 0.1 °C
Temperature Compensation	DO (auto); pH (auto/manual)
Display	Custom backlit LCD, for easy viewing
Inputs/Outputs	
Sensor Inputs	DO-miniDIN - Locking; ATC-miniDIN-Locking; pH/ISE - BNC; (all waterproof)
Communications	Waterproof bi-directional RS232 - Stereo jack, optional USB interface Cable
Special GLP Software Features	
# Of Data Logging Points	200 points by time, stability or manual read with time/date stamp
Calibration Log	Last 10 Calibrations
User Method Storage	10 Saved
Advanced Self-test and Diagnostics	YES
GLP Electrode Verification	YES
Password Protection	YES
Internet Software Updates / Downloadable Methods	YES
21 CFR Part 11 Software Package	YES
Power	4 x AA batteries, powerless date protection
Regulatory and Safety	CE, CSA, UL, TÜV, FCC Class A limits
Environmental Operating Conditions	
Ambient Operating Temperature	5 to 45 °C
Relative Humidity	5 to 85% Non-Condensing
IP Rating	IP67, waterproof and dustproof
Warranty	36 months (from date of purchase)

Above data generated under optimal/controlled circumstances.

Note: ISFET capability available in Fall 2005

pH/DO Portable Meter Kit (1216001) Includes:

Cat. No.	Description
1216000	4-Star pH/DO portable meter
9107BNMD	Low maintenance Triode™, pH/ATC electrode
910060	pH storage solution, 5x60 mL
083005MD	A line DO probe, 8 PIN F
080513	DO probe maintenance kit
080045	EP protective sleeve
204947-001	Beaker
080017	DO calibration sleeve, A series probes
1210004	Hard field case
910410	pH 4.01 buffer, 10 pack
910710	pH 7.00 buffer, 10 pack
911010	pH 10.01 buffer, 10 pack

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(page 2 of 2)