

## Star Series Specifications



# Orion 3-Star Dissolved Oxygen

Portable Meter (Cat. No. 1213000)  
Portable Meter Kit (Cat. No. 1213001)

- Durable, waterproof, IP67 meter stands up to the most demanding field applications while delivering over 2,000 hours of continuous operation.
- Ergonomic design for comfortable handling
- 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
- Simultaneous display of DO and temperature measurements

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Specifications	
<b>DO</b>	
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	Optional
Salinity Factor	0 to 45 ppt
Barometric Pressure Range	450 to 850 mm Hg
Probe Type	Polarographic
<b>Temperature</b>	
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	Auto
<b>Display</b>	Custom backlit LCD, for easy viewing
<b>Inputs/Outputs</b>	
Sensor Inputs	DO-miniDIN - Locking; ATC-miniDIN-Locking (all waterproof)
Communications	Waterproof bi-directional RS232 - Stereo jack, optional USB interface Cable
<b>Special GLP Software Features</b>	
# 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
Password Protection	YES
Internet Software Updates / Downloadable Methods	YES
<b>Power</b>	4 x AA batteries, powerless date protection
<b>Regulatory and Safety</b>	CE, CSA, UL, TÜV, FCC Class A limits
<b>Environmental Operating Conditions</b>	
Ambient Operating Temperature	5 to 45 °C
Relative Humidity	5 to 85% Non-Condensing
IP Rating	IP67, waterproof and dustproof
<b>Warranty</b>	36 months (from date of purchase)

*Above data generated under optimal/controlled circumstances.*

### DO Portable Meter Kit (1213001) Includes:

Cat. No.	Description
1213000	3-Star Dissolved Oxygen portable meter
083010F	Field probe 830A
080513	DO probe maintenance kit
080017	DO cal sleeve, A series probe
1210004	Hard field case