

Measure dissolved oxygen levels
without the hassle of membrane
replacement

Thermo Scientific Orion 3-Star RDO® Portable Meter and Sensor



Portable Optical RDO (Rugged Dissolved Oxygen) System

- Uses optical DO technology
- No membranes to change – once-a-year cap replacement
- Calibrate for dissolved oxygen using water-saturated air, air-saturated water, zero point or a custom point with Winkler titration
- Built-in barometer for automatic pressure correction with option for manual input
- Temperature calibration capability
- Data storage for 1000 data sets with time and date stamping
- RS232 port for easy data downloading and software updates
- IP67-rated meter housing and backlit display
- IP68-rated RDO sensor
- Four AA batteries provide over 1000 hours of operation in AUTO-READ™ mode
- 3-year warranty on meter and RDO sensor body
- 1-year warranty on optical cap

Thermo Scientific Orion 3-Star RDO Portable Meter

Specifications		
DO	Concentration Range	0.00 to 20.0 mg/L
	Resolution	0.01, 0.1 mg/L
	Relative Accuracy	±0.1 mg/L up to 8 mg/L; ±0.2 mg/L from 8 to 20 mg/L
	% Saturation Range	0.0 to 200%
	Resolution	0.1, 1%
	Relative Accuracy	± 2%
	Barometric Pressure Correction	450 to 850 mm Hg, automatic or manual
	Calibration Features	Water saturated air, air saturated water, manual (Winkler) and zero point
	Sensor Type	RDO optical
Temperature	Range	0 to 50 °C
	Resolution	0.1 °C
	Relative Accuracy	± 0.3 °C

Ordering Information	
Portable Meter Only	
1213300	3-Star RDO® portable meter only
Portable Meter Kits	
Cat. No.	Description
1213301	3-Star RDO portable meter, RDO sensor with 3 meter cable, stainless steel RDO sensor guard, optical cap, calibration sleeve, batteries and user guide
1213302	3-Star RDO portable meter, RDO sensor with 6 meter cable, stainless steel RDO sensor guard, optical cap, calibration sleeve, carrying case, batteries and user guide
Accessories	
Cat. No.	Description
087001	Replacement optical cap
087010MD	RDO optical sensor with 3 meter cable, stainless steel guard, calibration sleeve and optical cap
087020MD	RDO optical sensor with 6 meter cable, stainless steel guard, calibration sleeve and optical cap
087030MD	RDO optical sensor with 10 meter cable, stainless steel guard, calibration sleeve and optical cap
087050MD	RDO optical sensor with 15 meter cable, stainless steel guard, calibration sleeve and optical cap
087100MD	RDO optical sensor with 30 meter cable, stainless steel guard, calibration sleeve and optical cap
087002	Replacement stainless steel RDO optical sensor guard
087003	Calibration sleeve for RDO optical sensor

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S-3STRDOPT-E 1108 RevA

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