Thermo Scientific Orion Star A213

Advanced RDO/dissolved oxygen benchtop meter

The Thermo Scientific™ Orion™ Star A213 RD0/Dissolved Oxygen Benchtop Meter works for any lab or application. Its durability and dependability make it ideal for every B0D sample, every day.









The Thermo Scientific Orion Star A213 RDO/Dissolved Oxygen (DO) Benchtop Meter is the ideal choice for any lab. Get the information you need quickly and easily from the large, backlit graphic LCD display. Informative display shows dissolved oxygen in percent saturation or concentration and temperature with time, date, sample ID, user ID and compensation settings.

Features and Benefits

- Easy meter operation assured with on-screen text prompts, menu-specific function keys and a multi-language interface
- Compatible with Orion RDO optical and Orion polarographic DO probes
- Accurate results are easy with automatic temperature, manual salinity and automatic/manual barometric pressure compensation
- Don't miss a reading—AUTO-READ™
 locks the stable reading on screen, ready
 indicator alerts when reading is stable and
 timed setting logs data at set intervals

- Calibrate using water-saturated air, air-saturated water, custom value using a Winkler titration or zero point calibration
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data with the USB and RS232 ports and complimentary Orion Star Com computer software
- For faster BOD readings, control the Thermo Scientific[™] Orion[™] AUTO-STIR[™] DO/BOD probe (086030MD) directly from the meter
- Included electrode arm and holder make it easier to maintain and place probes into samples
- IP54-rated housing handles splashes and is wall-mountable to save space
- 3 year meter replacement warranty



Redesigned electrode arm and holder

Thermo Scientific Orion Star A213 RDO/Dissolved Oxygen Benchtop Meter

	Specifications
Dissolved	Concentration—Polarographic
Oxygen	Range: 0 to 90 mg/L
	Resolution: 0.01, 0.1 mg/L
	Relative Accuracy: ±0.2 mg/L or
	±2 % of reading, whichever is greater
	% Saturation—Polarographic
	Range: 0 to 600 % saturation
	Resolution: 0.1, 1 % saturation
	Relative Accuracy: ±2 % saturation or
	±2 % of reading, whichever is greater
	Concentration—RDO
	Range: 0 to 50 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;
	10 % of reading from 20 to 50 mg/L
	% Saturation—RDO
	Range: 0 to 500 % saturation
	Resolution: 0.1, 1 % saturation
	Relative Accuracy: ±2 % sat. ≤ 200 % sat.,
	±10 % sat. > 200 % sat.
	Barometric Pressure Correction:
	400 to 850 mmHg, automatic or manual
	Manual Salinity Factor Correction: 0 to 45 ppt
	Calibration Features: Water-saturated air,
	air saturated water, manual (Winkler) and
Townsystems	zero point
Temperature	Range: 0 to 50 °C, 32 to 122 °F Resolution: 0.1 °C, 0.1 °F
	Relative Accuracy: ± 0.1 °C, ± 0.1 °F Offset Calibration: 1 point
Datalogging	<u> </u>
Datalogging	Memory: 2000 with time and date stamp Log Function: Manual, ready
	(includes AUTO-READ), timed
Inputs	DO Probe with Built-in Temperature:
iliputs	•
Output	9-pin mini-DIN RS232, USB
Output Power	AC Adapter: Included—universal,
ruwei	100-240 VAC
	Battery Power: Optional—4 AAs
	Battery Life: 800 hrs
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	Meter Ordering Information
Part No.	Description
STARA2130	Orion Star A213 Dissolved Oxygen Benchtop Meter - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable
STARA2135	Orion Star A213 Dissolved Oxygen Benchtop Meter Kit - 083005MD Orion polarographic DO probe with calibration sleeve - 080513 DO probe maintenance kit - BOD adapter, funnel and stirrer - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable
STARA2136	Orion Star A213 Dissolved Oxygen Benchtop Meter Kit with Self-Stirring Probe - 086030MD Orion polarographic AUTO-STIR DO/BOD probe - 080513 DO probe maintenance kit - 080514 DO probe electrolyte - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable

Accessories Ordering Information	
Part No.	Description
STARA-BEA	Orion Star A series electrode arm,
	holder and benchtop meter-attachable
	base plate
STARA-HB	Orion Star A series freestanding base
	for electrode arm and holder
083005MD	Orion polarographic DO probe,
	1.5 m cable
086030MD	Orion polarographic AUTO-STIR DO/BOD
	probe, 1.5 m cable
087010MD	Orion RDO optical DO probe, 3 m cable with
	stainless steel guard and calibration sleeve
080513	Orion polarographic DO probe maintenance kit
080514	Orion polarographic DO probe electrolyte
	solution, 60 mL
087003	Replacement calibration sleeve for Orion RDO
	optical probes
087001	Replacement optical cap for Orion RDO probes
For more information	on, contact your local Thermo Scientific products dealer
or call our custome	er and technical service experts at 1-800-225-1480

or call our customer and technical service experts at 1-800-225-1480 (for the US and Canada) or visit www.thermoscientific.com/water.



Thermo Fisher Scientific Water Analysis Instruments Chelmsford, MA USA Quality Management System Registered to ISO 9001

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