

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

## Thermo Scientific Orion Star A213 RDO/Dissolved Oxygen Benchtop Meter



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 along with time, date, sample ID, user ID and calibration information. For advanced users, features such as stability and averaging choices provide additional options.

### Features and Benefits

- Anyone can use this meter with its plain language screen prompts, soft keys that update for easy selection and a multilanguage interface that supports English, Spanish, French, Italian, German and Chinese
- No need to worry about DO probe compatibility – the meter accepts and automatically recognizes Orion polarographic and RDO optical/luminescence-based probes
- Accurate results are easy with automatic temperature, manual salinity and your choice of automatic or manual barometric pressure compensation
- Don't miss a reading – AUTO-READ™ locks in the stable reading on your screen, ready indicator alerts when readings are stable and timed reading gathers data in specific time intervals
- Calibrate using water-saturated air, air-saturated water, a Winkler titration or zero point calibration
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data and keep meter software up-to-date with the USB and RS232 ports and complimentary data analysis software
- For faster BOD readings, control the Orion AUTO-STIR™ polarographic DO probe (086030MD, sold separately) directly from the meter
- Included electrode arm and newly-designed probe holder make it easier to maintain and place probes into samples
- Works with almost every AC power source with the included universal power adapter, or use four AA batteries (sold separately) to run the meter on DC power
- IP54-rated housing handles splashes and is wall-mountable if table space is a problem
- 3 year meter replacement warranty

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### Specifications



<b>Dissolved Oxygen</b>	<b>Concentration - Polarographic</b>	
	Range	0 to 90 mg/L
	Resolution	0.01, 0.1
	Relative Accuracy	±0.2
	<b>% Saturation - Polarographic</b>	
	Range	0 to 600
	Resolution	0.1, 1
	Relative Accuracy	±2 %
	<b>Concentration - RDO</b>	
	Range	0 to 50 mg/L
	Resolution	0.01, 0.1
	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
	<b>% Saturation - RDO</b>	
	Range	0 to 500
Resolution	0.1, 1	
Relative Accuracy	±2 %	
<b>Automatic Barometric Pressure Correction</b>		
	450.0 to 850.0 mm Hg	
<b>Manual Salinity Factor Correction</b>		
	0 to 45 ppt	
<b>Calibration Features</b>		
	Water-saturated air, air saturated water, manual (Winkler) and zero point	
<b>Probe Characteristics</b>		
	Polarographic or RDO	
<b>Temperature</b>	Range	0 to 50 °C, 32 to 122 °F
	Resolution	0.1
	Relative Accuracy	±0.1
	Offset Calibration	1 point
<b>Datalogging</b>	Memory	2000 with time and date stamp
	Log Function	Manual, ready (includes AUTO-READ™), timed
	Log Edit	Delete individual points, group of points or all
<b>Inputs</b>	<b>DO with Temperature Probe</b>	9-pin mini-DIN
<b>Output</b>		RS232, USB
<b>Power</b>	<b>AC Adapter</b>	Included – universal, 100-240 VAC
	<b>Battery Power</b>	Optional – 4 AAs
	<b>Battery Life</b>	800 hrs

### Ordering Information

Cat. No.	Description
<b>STARA2130</b>	<b>Orion STAR A213 Dissolved Oxygen Benchtop Meter</b> - Electrode arm with redesigned holder - Universal power adapter
<b>STARA2135</b>	<b>Orion STAR A213 Dissolved Oxygen Benchtop Meter Kit</b> - 083005MD Orion polarographic DO probe with calibration sleeve - 080513 polarographic DO probe maintenance kit - 970802 BOD funnel/stirrer - 080360 BOD adapter - Electrode arm with redesigned holder - Universal power adapter
<b>STARA2136</b>	<b>Orion STAR A213 Dissolved Oxygen Benchtop Meter Kit with Self-Stirring Probe</b> - 086030MD Orion polarographic AUTO-STIR DO/BOD probe - 080513 DO probe maintenance kit - 080514 polarographic DO probe electrolyte solution - Electrode arm with redesigned holder - Universal power adapter
<b>Accessories</b>	
<b>STARA-BEA</b>	Benchtop electrode arm for Orion Star A-series meters
<b>STARA-HB</b>	Freestanding base for use with Orion Star A-series benchtop electrode arm
<b>083005MD</b>	Orion polarographic DO probe, 1.5m cable
<b>086030MD</b>	Orion polarographic AUTO-STIR DO/BOD probe, 1.5m cable
<b>087010MD</b>	Orion RDO optical DO probe, 3m cable with stainless steel guard and calibration sleeve
<b>080513</b>	Orion polarographic DO probe maintenance kit
<b>080514</b>	Orion polarographic DO probe electrolyte solution, 60 mL
<b>080017</b>	Calibration sleeve for Orion polarographic DO probes
<b>087003</b>	Replacement calibration sleeve for Orion RDO optical probes
<b>087001</b>	Replacement optical cap for Orion RDO probes
<b>970802</b>	Orion BOD funnel and stirrer for use with polarographic probes
<b>080360</b>	Orion BOD bottle adapter for use with polarographic probes

For more information, contact your local Thermo Scientific products dealer or call our customer and technical service experts at 1-800-225-1480 (for the US and Canada) or visit [www.thermoscientific.com/water](http://www.thermoscientific.com/water).

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