

The Thermo Scientific Orion Star A223 RDO/Dissolved Oxygen Portable Meter makes necessary testing easier. Its durability and dependability make it a great choice for samples every day, anywhere.

## Thermo Scientific Orion Star A223 RDO/Dissolved Oxygen Portable Meter



Get the readings that you need where you need them with the Thermo Scientific Orion Star A223 RDO/Dissolved Oxygen Portable Meter. The large, backlit graphic LCD display shows dissolved oxygen in percent saturation or concentration with temperature and electrode status, time, date and calibration points.

### 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 automatic/manual barometric pressure compensation
- Don't miss a reading – AUTO-READ™ locks in the stable reading on your screen and ready indicator alerts when readings are stable
- Calibrate using water-saturated air, air-saturated water, a Winkler titration or zero point calibration
- Non-volatile memory holds up to 1000 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
- Four AA batteries (included) provide over 800 hours of operation or purchase the universal power adapter (sold separately) to use AC power
- Perfectly portable, waterproof and protected to take anywhere with a IP67-rated housing
- 3 year meter replacement warranty

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### Specifications



<b>Dissolved Oxygen</b>	<b>Concentration - Polarographic</b>	
	<b>Range</b>	0 to 90 mg/L
	<b>Resolution</b>	0.01, 0.1
	<b>Relative Accuracy</b>	±0.2
	<b>% Saturation - Polarographic</b>	
	<b>Range</b>	0 to 600
	<b>Resolution</b>	0.1, 1
	<b>Relative Accuracy</b>	±2 %
	<b>Concentration - RDO</b>	
	<b>Range</b>	0 to 50 mg/L
	<b>Resolution</b>	0.01, 0.1
	<b>Relative Accuracy</b>	±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>	
	<b>Range</b>	0 to 500
	<b>Resolution</b>	0.1, 1
<b>Relative Accuracy</b>	±2 %	
<b>Temperature</b>	<b>Manual 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>Range</b>	0 to 50 °C, 32 to 122 °F
<b>Datalogging</b>	<b>Resolution</b>	0.1
	<b>Relative Accuracy</b>	±0.1
	<b>Offset Calibration</b>	1 point
<b>Datalogging</b>	<b>Number of Points</b>	1000 with time and date stamp
	<b>Log Function</b>	Manual, Automatic with AUTO-READ™
	<b>Log Edit</b>	Delete last reading 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>	Optional – universal, 100-240 VAC
	<b>Battery Power</b>	Included – 4 AAs
	<b>Battery Life</b>	800 hrs

### Ordering Information

Cat. No.	Description
<b>STARA2230</b>	<b>Orion STAR A223 RDO/Dissolved Oxygen Portable Meter</b> - Four AA batteries (installed)
<b>STARA2235</b>	<b>Orion STAR A223 RDO/Dissolved Oxygen Portable Meter Kit</b> - 087010MD Orion RDO optical/luminescence-based probe with 3m cable, stainless steel guard, calibration sleeve and optical/luminescence-based cap - Protective armor with electrode holder - Hard carrying case - Four AA batteries (installed)
<b>Accessories</b>	
<b>STARA-CS</b>	Hard carrying case for Orion Star A-series portable meters
<b>STARA-AR</b>	Armor for Orion Star A-series portable meters, includes electrode holders for pH, conductivity and DO probes
<b>STARA-ESCD</b>	Conductivity and DO probe holder for Orion Star A-series armor
<b>STARA-ESPH</b>	pH electrode holder for Orion Star A-series armor
<b>1010003</b>	Optional universal power adapter, 100-240 V, 50/60 Hz
<b>087010MD</b>	Orion RDO optical DO probe, 3m cable with stainless steel guard and calibration sleeve
<b>087020MD</b>	Orion RDO optical DO probe, 6m cable with stainless steel guard and calibration sleeve
<b>087030MD</b>	Orion RDO optical DO probe, 10m cable with stainless steel guard and calibration sleeve
<b>087050MD</b>	Orion RDO optical DO probe, 15m cable with stainless steel guard and calibration sleeve
<b>087100MD</b>	Orion RDO optical DO probe, 30m cable with stainless steel guard and calibration sleeve
<b>083005MD</b>	Orion polarographic DO probe, 1.5m cable
<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

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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