

# Thermo Scientific Orion Star A323

Premium RDO/dissolved oxygen portable meter

The Thermo Scientific™ Orion™ Star A323 RDO/Dissolved Oxygen Portable Meter is the top choice for testing samples anywhere. It is rugged and dependable, making it ideal for every sample, every day, everywhere.



The Thermo Scientific Orion Star A323 RDO/Dissolved Oxygen Portable Meter is the top choice for advanced measurements on location. 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 with temperature and 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 for English, Spanish, French, Italian, German and Chinese
- 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, ready indicator alerts when readings are stable and timed reading gathers data in specific time 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 5000 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 Orion Star Com computer software
- Four AA batteries (included) provide over 800 hours of operation or purchase the universal power adapter (sold separately)
- Perfectly portable, waterproof and protected to take anywhere with a IP67-rated housing
- 3 year meter replacement warranty

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## Thermo Scientific Orion Star A323 Dissolved Oxygen Portable Meter

Specifications	
<b>Dissolved Oxygen</b>	<p><b>Concentration—Polarographic</b>  <b>Range:</b> 0 to 90 mg/L  <b>Resolution:</b> 0.01, 0.1 mg/L  <b>Relative Accuracy:</b> <math>\pm 0.2</math> mg/L or <math>\pm 2</math> % of reading, whichever is greater</p> <p><b>% Saturation—Polarographic</b>  <b>Range:</b> 0 to 600 % saturation  <b>Resolution:</b> 0.1, 1 % saturation  <b>Relative Accuracy:</b> <math>\pm 2</math> % saturation or <math>\pm 2</math> % of reading, whichever is greater</p> <p><b>Concentration—RDO</b>  <b>Range:</b> 0 to 50 mg/L  <b>Resolution:</b> 0.01, 0.1 mg/L  <b>Relative Accuracy:</b> <math>\pm 0.1</math> mg/L up to 8 mg/L; <math>\pm 0.2</math> mg/L from 8 to 20 mg/L; 10 % of reading from 20 to 50 mg/L</p> <p><b>% Saturation—RDO</b>  <b>Range:</b> 0 to 500 % saturation  <b>Resolution:</b> 0.1, 1 % saturation  <b>Relative Accuracy:</b> <math>\pm 2</math> % sat. <math>\leq 200</math> % sat., <math>\pm 10</math> % sat. <math>&gt; 200</math> % sat.</p> <p><b>Barometric Pressure Correction:</b>            400 to 850 mmHg, automatic or manual</p> <p><b>Manual Salinity Factor Correction:</b>            0 to 45 ppt</p> <p><b>Calibration Features:</b> Water-saturated air, air saturated water, manual (Winkler) and zero point</p>
<b>Temperature</b>	<p><b>Range:</b> 0 to 50 °C, 32 to 122 °F  <b>Resolution:</b> 0.1 °C, 0.1 °F  <b>Relative Accuracy:</b> <math>\pm 0.1</math> °C, 0.1 °F  <b>Offset Calibration:</b> 1 point</p>
<b>Datalogging</b>	<p><b>Memory:</b> 5000 with time and date stamp  <b>Log Function:</b> Manual, ready (includes AUTO-READ), timed</p>
<b>Inputs</b>	<b>DO Probe with Built-in Temperature:</b> 9-pin mini-DIN
<b>Output</b>	RS232, USB
<b>Power</b>	<p><b>AC Adapter:</b> Optional—universal, 100-240 VAC  <b>Battery Power:</b> Included—4 AAs  <b>Battery Life:</b> 800 hrs</p>



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

[thermoscientific.com/water](http://thermoscientific.com/water)

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### Meter Ordering Information

Part No.	Description
STARA3230	<b>Orion Star A323 Dissolved Oxygen Portable Meter</b> - Four AA batteries (installed) - Printed quick start guide and literature CD - USB computer cable
STARA3235	<b>Orion Star A323 Dissolved Oxygen Portable Meter Kit</b> - 087010MD Orion RDO optical DO probe with 3 m cable, stainless steel guard, calibration sleeve and optical cap - Protective armor with electrode holder - Hard-sided field case - Four AA batteries (installed) - Printed quick start guide and literature CD - USB computer cable

### Accessories Ordering Information

Part No.	Description
STARA-CS	Orion Star A series portable meter hard-sided field case
1210005	Orion Star A series portable meter soft-sided field case
STARA-AR	Orion Star A series portable meter armor with pH electrode holder, conductivity and DO probe holder, stand and adjustable hand-strap
STARA-ESCD	Orion conductivity and DO probe holder for portable Star A series meter armor
1010003	Universal power adapter, 100-240 V, 50/60 Hz
087010MD	Orion RDO optical DO probe, 3 m cable with stainless steel guard and calibration sleeve
087020MD	Orion RDO optical DO probe, 6 m cable with stainless steel guard and calibration sleeve
087030MD	Orion RDO optical DO probe, 10 m cable with stainless steel guard and calibration sleeve
087050MD	Orion RDO optical DO probe, 15 m cable with stainless steel guard and calibration sleeve
087100MD	Orion RDO optical DO probe, 30 m cable with stainless steel guard and calibration sleeve
083005MD	Orion polarographic DO probe, 1.5 m cable
080513	Orion polarographic DO probe maintenance kit
087001	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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