

# Thermo Scientific Orion Star A123

Basic dissolved oxygen portable meter

Thermo Scientific™ Orion™ Star A123 Dissolved Oxygen Portable Meters make it easy and affordable to take simple, accurate dissolved oxygen measurements.



Thermo Scientific Orion Star A123 Dissolved Oxygen Portable Meters combine simplicity with accuracy. A large LCD displays dissolved oxygen readings along with temperature. Icons provide quick updates on battery life and reading stability. Simple button layout and onscreen messages help with calibration and setup menu choices.

## Features and Benefits

- Large, informative screen clearly shows the main information, including DO reading in mg/L or % saturation, temperature in °C or °F, meter mode and battery life
- Automatic temperature, manual salinity input and manual barometric pressure compensation for accurate DO results
- Don't miss a reading—AUTO-READ™ locks in the stable reading on your screen and ready indicator alerts when continuous readings are stable

- Two calibration options to meet your procedural requirements: water-saturated air method or custom value using a Winkler titration
- Accepts Thermo Scientific Orion polarographic dissolved oxygen probes
- Non-volatile memory holds up to 50 data points
- Four AA batteries (included) provide over 2000 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 A123  
Dissolved Oxygen Portable Meter**

| Specifications          |  |
|-------------------------|--|
| <b>Dissolved Oxygen</b> | <p><b>Concentration</b><br/> <b>Range:</b> 0 to 20 mg/L<br/> <b>Resolution:</b> 0.01, 0.1 mg/L<br/> <b>Relative Accuracy:</b> ±0.2 mg/L</p> <p><b>% Saturation</b><br/> <b>Range:</b> 0 to 200 % saturation<br/> <b>Resolution:</b> 0.1, 1 % saturation<br/> <b>Relative Accuracy:</b> ±2 % saturation</p> <p><b>Manual Barometric Pressure Correction:</b><br/>           450.0 to 850.0 mm Hg<br/> <b>Manual Salinity Factor Correction:</b><br/>           0 to 45<br/> <b>Calibration Features:</b> Water-saturated air, manual (Winkler)<br/> <b>Sensor Type:</b> Polarographic</p> |
| <b>Temperature</b>      | <p><b>Range:</b> 0 to 50 °C, 32 to 122 °F<br/> <b>Resolution:</b> 0.1 °C, 0.1 °F<br/> <b>Relative Accuracy:</b> ±0.1 °C, ±0.1 °F<br/> <b>Temperature Offset Calibration:</b> Yes</p>   |
| <b>Datalogging</b>      | <p><b>Number of Points:</b> 50<br/> <b>Log Function:</b> Manual, Automatic with AUTO-READ</p>  |
| <b>Inputs</b>           | <p><b>DO Probe with Built-in Temperature:</b><br/>           9-pin mini-DIN</p>  |
| <b>Power</b>            | <p><b>AC Adapter:</b> Optional—universal, 100-240 VAC<br/> <b>Battery Power:</b> Included—4 AAs<br/> <b>Battery Life:</b> 2000 hrs</p>   |

| Meter Ordering Information |   |
|----------------------------|---|
| <b>Part No.</b>            | <b>Description</b>  |
| <b>STARA1230</b>           | <p><b>Orion Star A123 Dissolved Oxygen Portable Meter</b><br/>           - Four AA batteries (installed)<br/>           - Printed quick start guide and literature CD</p>   |
| <b>STARA1235</b>           | <p><b>Orion Star A123 Dissolved Oxygen Portable Meter Standard Kit</b><br/>           - 083005MD Orion polarographic DO probe (1.5 m cable) with calibration sleeve<br/>           - 080513 DO probe maintenance kit<br/>           - Protective meter armor with electrode holder<br/>           - Hard-sided field case<br/>           - Four AA batteries (installed), literature and test certificate</p> |
| <b>STARA1236</b>           | <p><b>Orion Star A123 Dissolved Oxygen Portable Meter 3 m Cable Kit</b><br/>           - 083010MD Orion polarographic DO probe (3 m cable) with calibration sleeve<br/>           - 080513 DO probe maintenance kit<br/>           - Protective meter armor with electrode holder<br/>           - Hard-sided field case<br/>           - Four AA batteries (installed), literature and test certificate</p>  |

| Accessories Ordering Information |  |
|----------------------------------|--|
| <b>Part No.</b>                  | <b>Description</b>   |
| <b>STARA-CS</b>                  | Orion Star A series portable meter hard-sided field case   |
| <b>1210005</b>                   | Orion Star A series portable meter soft-sided field case   |
| <b>STARA-AR</b>                  | Orion Star A series portable meter armor with pH electrode holder, conductivity and DO probe holder, stand and adjustable hand-strap |
| <b>STARA-ESCD</b>                | Orion conductivity and DO probe holder for portable Star A series meter armor  |
| <b>083005MD</b>                  | Orion polarographic DO probe, 1.5 m cable  |
| <b>083010MD</b>                  | Orion polarographic DO probe, 3 m cable  |
| <b>1010003</b>                   | Universal power adapter, 100-240 V, 50/60 Hz   |

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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