

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 multilingual 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



| | | |
|--------------------------|--|---|
| Dissolved Oxygen | Concentration - Polarographic | |
| | Range | 0 to 90 mg/L |
| | Resolution | 0.01, 0.1 |
| | Relative Accuracy | ±0.2 |
| | % Saturation - Polarographic | |
| | Range | 0 to 600 |
| | Resolution | 0.1, 1 |
| | Relative Accuracy | ±2 % |
| | Concentration - RDO | |
| | 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 |
| | % Saturation - RDO | |
| | Range | 0 to 500 |
| | Resolution | 0.1, 1 |
| Relative Accuracy | ±2 % | |
| | Manual Barometric Pressure Correction | 450.0 to 850.0 mm Hg |
| | Manual Salinity Factor Correction | 0 to 45 ppt |
| | Calibration Features | Water saturated air, air saturated water, manual (Winkler) and zero point |
| | Probe Characteristics | Polarographic or RDO |
| Temperature | Range | 0 to 50 °C, 32 to 122 °F |
| | Resolution | 0.1 |
| | Relative Accuracy | ±0.1 |
| | Offset Calibration | 1 point |
| Datalogging | Memory | 1000 with time and date stamp |
| | Log Function | Manual, Automatic with AUTO-READ™ |
| | Log Edit | Delete last reading or all |
| Inputs | DO with Temperature Probe | 9-pin mini-DIN |
| Output | | RS232, USB |
| Power | AC Adapter | Optional – universal, 100-240 VAC |
| | Battery Power | Included – 4 AAs |
| | Battery Life | 800 hrs |

Ordering Information

| Cat. No. | Description |
|--------------------|--|
| STARA2230 | Orion STAR A223 RDO/Dissolved Oxygen Portable Meter - Four AA batteries (installed) |
| STARA2235 | Orion STAR A223 RDO/Dissolved Oxygen Portable Meter Kit - 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) |
| Accessories | |
| STARA-CS | Hard carrying case for Orion Star A-series portable meters |
| STARA-AR | Armor for Orion Star A-series portable meters, includes electrode holders for pH, conductivity and DO probes |
| STARA-ESCD | Conductivity and DO probe holder for Orion Star A-series armor |
| STARA-ESPH | pH electrode holder for Orion Star A-series armor |
| 1010003 | Optional universal power adapter, 100-240 V, 50/60 Hz |
| 087010MD | Orion RDO optical DO probe, 3m cable with stainless steel guard and calibration sleeve |
| 087020MD | Orion RDO optical DO probe, 6m cable with stainless steel guard and calibration sleeve |
| 087030MD | Orion RDO optical DO probe, 10m cable with stainless steel guard and calibration sleeve |
| 087050MD | Orion RDO optical DO probe, 15m cable with stainless steel guard and calibration sleeve |
| 087100MD | Orion RDO optical DO probe, 30m cable with stainless steel guard and calibration sleeve |
| 083005MD | Orion polarographic DO probe, 1.5m cable |
| 080513 | Orion polarographic DO probe maintenance kit |
| 080514 | Orion polarographic DO probe electrolyte solution, 60 mL |
| 080017 | Calibration sleeve for Orion polarographic DO probes |
| 087003 | Replacement calibration sleeve for Orion RDO optical probes |
| 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.

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