

Thermo Scientific Orion Star A216

Advanced pH/RDO/dissolved oxygen benchtop meter

The Thermo Scientific™ Orion™ Star A216 pH/RDO/Dissolved Oxygen Benchtop Meter works for any lab or application. Its durability and dependability make it ideal for every sample, every day.



The Thermo Scientific Orion Star A216 pH/RDO/Dissolved Oxygen 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 one or both pH and DO channels with temperature. Additional information includes electrode status, time, date, sample ID and user ID.

Features and Benefits

- Easy meter operation assured with on-screen text prompts, menu-specific function keys and a multi-language interface
- Don't miss a reading—AUTO-READ™ locks the stable reading on screen, ready indicator alerts when reading is stable and timed setting logs data at set intervals
- Up to 5 point pH calibration with automatic recognition for USA/NIST and DIN buffers or manual option for custom buffer values
- Compatible with Orion RDO optical and Orion polarographic DO probes
- Accurate DO results are easier with automatic temperature, manual salinity and automatic/manual barometric pressure compensation
- Calibrate DO using water-saturated air, air-saturated water, customer value using a Winkler titration or zero point calibration
- Non-volatile memory holds up to 2000 data points with time and date stamp
- Easily transfer data with the USB and RS232 ports and complimentary Orion Star Com computer software
- For faster BOD readings, control the Thermo Scientific™ Orion™ AUTO-STIR™ DO/BOD probe (086030MD) directly from the meter
- IP54-rated housing handles splashes and is wall-mountable to save space
- 3 year meter replacement warranty



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**Thermo Scientific Orion Star A216
pH/RDO/Dissolved Oxygen Benchtop Meter**

Specifications	
pH	Range: -2.000 to 20.000 Resolution: 0.1, 0.01, 0.001 Relative Accuracy: ±0.002 Calibration Points: Up to 5 Calibration Editing: Yes
mV/RmV	Range: ±2000.0 mV Resolution: 0.1 mV Relative Accuracy: ±0.2 mV or ±0.05 % of reading whichever is greater E_H ORP Mode: Yes
Dissolved Oxygen	Polarographic Range: 0 to 600 % saturation; 0 to 90 mg/L Resolution: 0.1, 1 % sat.; 0.01, 0.1 mg/L Relative Accuracy: ±2 % sat. or ±2 % of reading, whichever is greater; ±0.2 mg/L or ±2 % of reading, whichever is greater RDO Range: 0 to 500 % saturation; 0 to 50 mg/L Resolution: 0.1, 1 % sat.; 0.01, 0.1 mg/L Relative Accuracy: ±2 % sat. ≤ 200 % sat., ±10 % sat. > 200 % sat.; ±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 Barometric Pressure Correction: 400 to 850 mmHg, automatic or manual Manual Salinity Factor Correction: 0 to 45 ppt Calibration: Water-saturated air, air saturated water, manual (Winkler), zero point
Temperature	Range: -5 to 105 °C, 23 to 221 °F (RDO/DO: 0 to 50 °C, 32 to 122 °F) Resolution: 0.1 °C, 0.1 °F Relative Accuracy: ±0.1 °C, ±0.1 °F Offset Calibration: 1 point
Datalogging	Memory: 2000 with time and date stamp Log Function: Manual, ready (includes AUTO-READ), timed
Inputs	pH Electrode: BNC, reference pin ATC Probe: 8-pin mini-DIN DO Probe with Temp: 9-pin mini-DIN
Output	RS232, USB
Power	AC Adapter: Included—universal, 100-240 VAC Battery Power: Optional—4 AAs Battery Life: 800 hrs

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

thermoscientific.com/water

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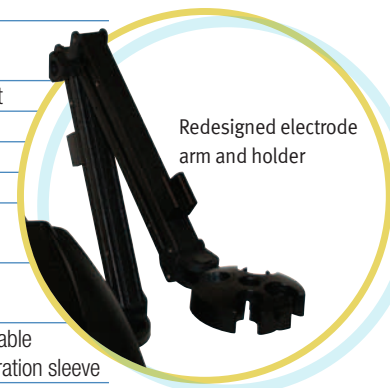
Meter Ordering Information

Part No.	Description
STARA2160	Orion Star A216 pH/Dissolved Oxygen Benchtop Meter - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable
STARA2165	Orion Star A216 pH/Dissolved Oxygen Benchtop Meter Kit - 8157BNUMD Orion ROSS Ultra Triode refillable, epoxy-body pH/ATC electrode - 083005MD Orion polarographic DO probe with calibration sleeve - 080513 DO probe maintenance kit - BOD adapter, funnel and stirrer - 810199 ROSS pH buffer & solution kit - Attached electrode stand and holder - Universal power adapter - Printed quick start guide and literature CD - USB computer cable

Accessories Ordering Information

Part No.	Description
096019	Orion Star stirrer probe
STARA-BEA	Orion Star A series electrode arm, holder and benchtop meter-attachable base plate
STARA-HB	Orion Star A series freestanding base for electrode arm and holder
8302BNUMD	Orion ROSS Ultra Triode refillable, glass-body pH/ATC electrode
8102BNUWP	Orion ROSS Ultra refillable, glass-body pH electrode
927007MD	Orion stainless steel ATC temperature probe
810199	Orion ROSS All-in-One pH buffer kit
910104	Orion pH 4.01 buffer, 475 mL
910107	Orion pH 7.00 buffer, 475 mL
910110	Orion pH 10.01 buffer, 475 mL
083005MD	Orion polarographic DO probe, 1.5 m cable
086030MD	Orion polarographic AUTO-STIR DO/BOD probe, 1.5 m cable
087010MD	Orion RDO optical DO probe, 3 m cable with stainless steel guard and calibration sleeve

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.



Redesigned electrode arm and holder



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