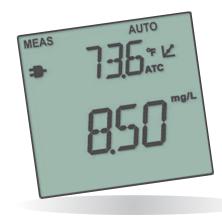
## Thermo Scientific Orion Star A113

Basic dissolved oxygen benchtop meter

Thermo Scientific™ Orion™ Star A113 Dissolved Oxygen Benchtop Meters make it easy and affordable to take simple, accurate dissolved oxygen measurements.









Thermo Scientific Orion Star A113 Dissolved Oxygen Benchtop Meters combine simplicity with accuracy. 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 power source
- 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 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
- Included electrode arm and holder make it easier to maintain and place probes into samples
- Plug the meter into almost any power outlet with the included universal power adapter, or use four AA batteries (sold separately) for added flexibility
- The IP54-rated housing handles splashes and can be wall-mounted if table space is limited
- 3 year meter replacement warranty



## **Thermo Scientific Orion Star A113 Dissolved Oxygen Benchtop Meter**

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

Meter Ordering Information	
Part No.	Description
STARA1130	Orion Star A113 Dissolved Oxygen
	Benchtop Meter
	- Attached electrode stand and holder
	- Universal power adapter
	- Printed quick start guide and literature CD
STARA1135	Orion Star A113 Dissolved Oxygen
	Benchtop Meter Kit
	- 083005MD Orion polarographic DO probe
	- 080017 calibration sleeve for DO probe
	- 080513 DO probe maintenance kit
	- Attached electrode stand and holder
	- Universal power adapter
	- Printed quick start guide and literature CD

Accessories Ordering Information	
Part No.	Description
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
083005MD	Orion polarographic DO probe, 1.5 m cable
083010MD	Orion polarographic DO probe, 3 m cable
080513	Orion polarographic DO probe maintenance kit
080017	Calibration sleeve for Orion polarographic
	DO 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.





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

## thermoscientific.com/water

© 2013 Thermo Fisher Scientific Inc. All rights reserved. Certified System StandardsMark logo is a trademark of SAI Global. All other trademarks are the property of Thermo Fisher Scientific Inc. & its subsidiaries









Water Analysis Instruments

**North America** Toll Free: 1-800-225-1480 Tel: 1-978-232-6000 info.water@thermo.com Netherlands Tel: (31) 020-4936270 info.water.uk@thermo.com

Tel: (86) 21-68654588 wai.asia@thermofisher.com

India

Tel: (91) 22-4157-8800 wai.asia@thermofisher.com

**Singapore** Tel: (65) 6778-6876 wai.asia@thermofisher.com

**Japan** Tel: (81) 045-453-9175 wai.asia@thermofisher.com

**Australia** Tel: (613) 9757-4300 in Australia (1300) 735-295 InfoWaterAU@thermofisher.com

