



HI 9143 Extended Range, Waterproof Dissolved Oxygen Meter

- Waterproof
- Automatic Temperature Compensation
- Automatic calibration
- Altitude compensation
- Salinity compensation

Applications

Steam Boiler Installations

Oxygen meters are used for measuring and monitoring the oxygen content at various points in the water circuit of steam boiler installations.

Heating Systems

Another application of oxygen meters is in the prevention of metal corrosion, such as in heating systems, where one of the factors affecting the rate of corrosion is the percentage of oxygen present.

Civil and Industrial Wastewater

Monitor civil and industrial wastewater where low oxygen concentrations indicate pollution.

Nuclear Power Stations

Nuclear power stations are also suitable for oxygen measurement of their heavy water.



HI 9143

Extended Range, Waterproof Dissolved Oxygen Meter

The HI 9143 includes an extended range for both altitude and salinity compensation. Now you can have measurements automatically compensated in high altitudes of up to 4,000 meters and in salt or brackish waters up to 80 m/L. This meter is designed for outdoor use with a waterproof case that protects the instrument from cold, snow, dust and very humid environments. You can perform calibration instantly in the air or with calibration solution. The polarographic probe is available with several different lengths of cable enabling you to reach the desired depths for more precise readings with minimal maintenance.

This rugged instrument features an extended range from 0.0 to 300.0 %O₂ allowing you to accurately measure super-saturated water without error. For extended time studies, this meter can be connected to the available 12 VDC power supply. The HI 9143 comes with a rugged carrying case.



Specifications	HI 9143
Range	0.00 to 45.00 mg/L O ₂ ; 0.0 to 300.0 %O ₂ ; 0.0 to 50.0°C
Resolution	0.01 mg/L O ₂ ; 0.1 %O ₂ ; 0.1°C
Accuracy (@20°C/77°F)	±1.5% F.S. mg/L O ₂ ; ±1.5% F.S. %O ₂ ; ±0.5°C
Typical EMC Deviation	±0.3 mg/L O ₂ ; ±3.5 %O ₂ ; ±0.5°C
Calibration	Automatic in saturated air
Temp. Compensation	Automatic from 32 to 122°F (0 to 50°C)
Probe	HI 76407/4 polarographic D.O. probe with 13' (4 m) cable (included)
Altitude Compensation*	0 to 1900 m, 100 m resolution
Salinity Compensation*	0 to 40 g/L, 1 g/L resolution
Environment	From 32 to 122°F (0 to 50°C), 100% RH
Battery Type/Life	4 x 1.5V AA/ approximately 200 hours of continuous use Auto shut-off after 4 hours. power plug for 12VDC supply
Dimensions	7.7 x 3.1 x 2.4" (196 x 80 x 60 mm)
Weight	15 oz. (425 g) Kit: 3.1 lb. (1.4 Kg)

* For HI 9143M: 0.0 to 4.0 Km with 0.1 Km resolution and 0 to 80 g/L with 1 g/L resolution

Dissolved Oxygen Probe

The HI 76407 dissolved oxygen probe is extremely rugged making the meter and probe perfect for laboratory as well as field applications. Calibration is fast and simple and all D.O. measurements are temperature compensated. The pre-tensioned and ready-made PTFE membrane can be changed in a few seconds without the need to stretch and cut the replacement. The HI 76407 is offered in several cable lengths to meet your specific needs.



Oxygen Electrolyte Solution

It is crucial to the performance of the D.O. probe to keep the sensor active with regular maintenance. For this purpose, Hanna has developed HI 7041S electrolyte solution to refill the membrane cap.



Ordering Information

HI 9143 is supplied with HI 76407/4 D.O. probe with 4 m (13') cable, 2 spare membranes, HI 7041S electrolyte solution, 4 x 1.5V AA batteries & instruction manual in a rugged case.

Recommended Accessories

HI 7041S	Refilling electrolyte solution, 1 oz. (30 mL)
HI 76407/4	D.O. probe with 13' (4 m) cable
HI 76407/10	D.O. probe with 33' (10 m) cable
HI 76407/20	D.O. probe with 67' (20 m) cable
HI 7041L	Refilling electrolyte solution, 16.9 oz. (500 mL)
HI 76407A/P	Pack of 5 replacement membranes
HI 721317	Rugged carrying case
HI 710005	.110V to 12VDC adapter
HI 710006	.220V to 12VDC adapter

Hanna solutions are available in different sizes to fit any application.

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