

Portable D.O. Meters with Extended Range in Water-Resistant Casing

Measurements in the field can subject instrumentation to the inclemency of weather. Cold, rain, snow, dust and humidity, associated with use in the field, can cause condensation which may damage a meter, rapidly deteriorating its performance and life. HI 9143 and HI 9145 are designed for harsh outdoor applications, especially waste water treatment and fish farming. Simple on-site calibration requires no chemical solutions. Just expose the probe to air and press the CAL button. In a few minutes, the meter is calibrated and ready to use. Auto-calibration eliminates the need to use a screwdriver or other devices to adjust the reading.

The new and improved HI 9143 and HI 9145 measure and display O₂ from 0 to 300%, 0 to 45 mg/L and temperature from 0 to 50 °C.

In addition to the features of HI 9145, HI 9143 also supplies the user with compensation of salinity and altitude factors.

Both meters compensate for the temperature effect.



Ordering Information

HI 9143 is supplied complete with D.O. probe HI 76407/4 with 4 m (13') cable, 2 spare membranes, electrolyte solution HI 7041S (30 mL), batteries, rugged carrying case and instructions. HI 9145 is supplied complete with D.O. probe HI 76407/4 with 4 m (13') cable, 2 spare membranes, electrolyte solution HI 7041S (30 mL), batteries, rugged carrying case and instructions.



Specifications

	HI 9143	HI 9145
Range	O ₂	0.00 to 45.00 mg/L
	% Saturation O ₂	0.0 to 300.0%
	Temperature	0.0 to 50.0°C
Resolution	O ₂	0.01 mg/L
	% Saturation O ₂	0.1%
	Temperature	0.1°C
Accuracy (@ 20°C/68°F)	O ₂	± 1.5% F.S.
	% Saturation O ₂	± 1.5% F.S.
	Temperature	± 0.5°C
Calibration	automatic, in air, at 100%	
Temperature Compensation	automatic, 0 to 50°C (32 to 122°F)	
Altitude Compensation	0 to 1900 m 100 m (328') resolution	—
Salinity Compensation	0 to 40 g/L 1 g/L resolution	—
Probe	HI 76407/4 polarographic, with 4 m (13') cable (included)	
Power Supply	4 x 1.5V AA batteries / approx. 200 hours of continuous use; auto-off after 4 hours of non-use; or input for 12 Vdc power adapter	
Environment	0 to 50°C (32 to 122°F); RH max 100%	
Dimensions	196 x 80 x 60 mm (7.7 x 3.1 x 2.4")	
Weight	500 g (1.1 lb.)	

Accessories

HI 76407/4	D.O. Probe with 4 m (13') cable	HI 7041S	Refilling electrolyte solution (30 mL)
HI 76407/10	D.O. Probe with 10 m (33') cable	HI 710006	230 Vac/12 Vdc adapter
HI 76407/20	D.O. Probe with 20 m (67') cable	HI 76407A/P	Replacement membrane (5 pcs)
		HI 721317	Rugged carrying case

For other accessories, see section U. For a list of D.O. probes, see page M12.