

# HI 9143 and HI 9145

## Extended Range in Waterproof Casing

### Features ...

Measurements in the field can subject the instrumentation to the inclemency of the weather. Cold, rain, snow, dust and humidity associated with use in the field can cause condensation which may damage the meter, rapidly deteriorating its performance and life. **HI 9143** and **HI 9145** are designed for 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 O<sub>2</sub> 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.



### ... and Benefits



Specifications	HI 9143	HI 9145	
Range	mg/L O <sub>2</sub>	0.00 to 45.00	0.00 to 45.00
	% Saturation O <sub>2</sub>	0.0 to 300.0	0.0 to 300.0
	°C	0.0 to 50.0	0.0 to 50.0
Resolution	mg/L O <sub>2</sub>	0.01	0.01
	% Saturation O <sub>2</sub>	0.1	0.1
	°C	0.1	0.1
Accuracy (@20°C/68°F)	mg/L O <sub>2</sub>	±1.5% F.S.	±1.5% F.S.
	% Saturation O <sub>2</sub>	±1.5% F.S.	±1.5% F.S.
	°C	±0.5	±0.5
Typical EMC	mg/L O <sub>2</sub>	±0.3	±0.3
Deviation	O <sub>2</sub>	±3.5%	±3.5%
	°C	±0.5	±0.5
Calibration	Automatic in air at 100%		
Temperature Compensation	Automatic from 0 to 50°C (32 to 122°F)		
Altitude Compensation	0 to 1900 m (0 to 6230')	-	
	100 m (328') resolution	-	
Salinity Compensation	0 to 40 g/L	-	
	1 g/L resolution	-	
Probe	HI 76407/4 polarographic D.O. probe with 4 m (13') cable (included)		
Power Supply	4 x 1.5V AA batteries / Approximately 200 hours of continuous use Auto shut-off after 4 hours. Power plug for 12VDC supply		
Environment	0 to 50°C (32 to 122°F); RH 100%		
Dimensions	196 x 80 x 60 mm (7.7 x 3.1 x 2.4")		
Weight	425 g (15 oz.); kit: 1.4 kg (3.1 lb.)		

### Ordering Information

**HI 9143** is supplied complete 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 and instruction manual in a rugged carrying case.

**HI 9145** is supplied complete 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 and instruction manual in a rugged carrying case.

### Accessories

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

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