

Waterproof Simple-to-use Dissolved Oxygen Meter



Features ...

The ever increasing demand for instant results for on-site analysis has created a constant need for waterproof portable meters. Measurements in the field can subject the instrumentation to the inclemency of the weather. The cold, rain, snow and dust associated with use in the field, can damage the meter, rapidly deteriorating its performance and life. **HI 9142** is a rugged, waterproof meter that solves the common problems of field use. It is very simple to use: calibration is performed with **HI 7040** zero oxygen solution while 100% calibration is done in air. There is no need to use chemical solutions or go through time consuming calibration procedures. The polarographic probe (**HI 76407/4**) will take measurements accurate to 0.3 ppm in minutes and is supplied with a 4 m (13') cable that allows measurements to be taken in even hard to reach places. For applications that require longer probe cables, the **HI 76407/10** and **HI 76407/20** probes with a 10 m (33') or 20 m (67') cable are available.

... and Benefits

Specifications

HI 9142

Range	0.0 to 19.9 mg/L (ppm)
Resolution	0.1 mg/L
Accuracy (@20°C/68°F)	±1.5% F.S.
Typical EMC Deviation	±0.8 mg/L with HI 76407/4 4 meter cable probe
Calibration	Manual 1 or 2 points (zero & slope)
Temperature Compensation	Automatic from 0 to 30°C (32 to 86°F)
Probe	HI 76407/4 polarographic D.O. probe with 4 m (13') cable (included)
Battery Type / Life	4 x 1.5V AA / approximately 500 hours of continuous use.
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 9142 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

HI 7040L	Zero oxygen solution (500 mL)
HI 7041S	Refilling electrolyte solution (30 mL)
HI 76407/4	D.O. probe with 4 m (13') cable
HI 76407/10	D.O. probe with 10 m (33') cable
HI 76407/20	D.O. probe with 20 m (67') cable
HI 76407A/P	Pack of 5 replacement membranes
HI 721317	Rugged carrying case

• One Point Calibration

The meter can be calibrated in saturated air without the need for chemical solutions.

• ATC Circuitry

The meter's built-in Automatic Temperature Compensation circuitry will adjust all readings to provide the utmost accuracy.

• Rugged, Waterproof Casing

The rugged, waterproof casing makes the **HI 9142** indispensable in the biological water treatment industry.

• Low Battery Indicator

The low battery indicator gives the user advanced notice to avoid taking an erroneous reading due to low power.