

HI 9142

Manual Calibration Dissolved Oxygen Meter

- Automatic Temperature Compensation
- Affordable and efficient
- DO probe and carrying case included

The ever increasing demand for instant on-site analysis results has created a need for innovative and rugged portable, waterproof meters.

Field work can subject instrumentation to the inclemency of weather. Cold, rain, snow, dust and humidity can cause condensation to breach the housing. Once the housing has been compromised, the meter is susceptible to diminishing performance and life. The rugged, waterproof housing of the HI 9142 solves many of the problems of field use.

Calibration is performed with HI 7040 zero oxygen solution, while 100% calibration is done in air.

The polarographic probe (HI 76407/4) is accurate to 0.3 ppm and is supplied with a 4 m (13') cable that allows measurements to be taken even in hard to reach places.

ORDERING INFORMATION

HI 9142 is supplied with HI 76407/4 probe with 4 m (13') cable, 2 spare membranes, HI 7041S electrolyte solution (30 mL), calibration screwdriver, batteries, instructions and rugged carrying case.

HI 9142/10 is supplied with everything above but substitutes a 10 m (32.8') probe cable for the 4 m.

HI 9142/20 is supplied with everything above but substitutes a 20 m (65.6') probe cable for the 4 m.

PROBES

HI 76407/4	Polarographic DO probe with protective sleeve, internal temperature sensor, DIN connector and 4 m (13') cable
HI 76407/10	Polarographic DO probe with internal temperature sensor, DIN connector and 10 m (32.8') cable
HI 76407/20	Polarographic DO probe with internal temperature sensor, DIN connector and 20 m (65.6') cable

SOLUTIONS

HI 7040M	Zero oxygen solution, 230 mL
HI 7040L	Zero oxygen solution, 500 mL
HI 7041S	Refilling electrolyte solution (30 mL)
HI 7041M	Refilling electrolyte solution (230 mL)
HI 7041L	Refilling electrolyte solution (500 mL)

ACCESSORIES

HI 76407A/P	Replacement membranes (5)
HI 721317	Rugged carrying case



SPECIFICATIONS		HI 9142
Range	O ₂	0.0 to 19.9 mg/L (ppm)
	Temperature	-5.0 to 50.0°C (32.0 to 122.0°F)
Resolution	O ₂	0.1 mg/L (ppm)
	Temperature	0.1°C (1°F)
Accuracy (@ 20°C/68°F)	O ₂	±1.5% F.S.
	Temperature	±0.2°C (±1°F) (excluding probe error)
Calibration		manual, at one or two points (zero and slope)
Temperature Compensation		automatic, 0 to 50°C (32 to 122°F)
Probe		HI 76407/4 polarographic DO probe with internal temperature sensor, DIN connector and 4 m (13') cable
Battery Type / Life		1.5V AAA (3) / approximately 1,000 hours of continuous use
Environment		0 to 50°C (32 to 122°F); RH max 95%
Dimensions		185 x 72 x 36 mm (7.3 x 2.8 x 1.4")
Weight		300 g (10.6 oz.)

For a complete list of Solutions, Probes and Accessories, see the end of this section.