

HI 9146

Dissolved Oxygen Meter

- On-screen tutorial messages
- Two point calibration
- Auto endpoint
- DO range up to 300%, temperature compensated
- Altitude compensation up to 4000 m
- Salinity compensation up to 80 g/L
- Automatic calibration in air
- GLP features
- Low battery indicator

HI 9146 is a water-resistant, dissolved oxygen meter that measures up to 300% saturation or 45 ppm (mg/L) with temperature compensation and automatic calibration. It has been developed for DO and temperature measurement in water, wastewater, and applications such as fish farming.

This instrument also allows altitude compensation up to 4000 m and the ppm and % saturation are both compensated for changes in solubility of oxygen in water and for permeability of the membrane as well as the temperature effect.

The included polarographic probe features built-in temperature compensation and removable protective membrane cover.

ORDERING INFORMATION

HI 9146-04 is supplied complete with HI 76407/4F probe with 4 m (13.1') cable, HI 76407A membranes (2), HI 7041S electrolyte solution (30 mL), batteries, instructions and rugged carrying case.

HI 9146-10 is supplied complete with HI 76407/10F probe with 10 m (32.8') cable, HI 76407A membranes (2), HI 7041S electrolyte solution (30 mL), batteries, instructions and rugged carrying case.

PROBES

HI 76407/4F	Polarographic DO probe with protective sleeve, internal temperature sensor, DIN connector and 4 m (13') cable
HI 76407/10F	Polarographic DO probe with protective sleeve, internal temperature sensor, DIN connector and 10 m (33') cable

SOLUTIONS

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

ACCESSORIES

HI 76407/A/P	Replacement membranes (5)
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SPECIFICATIONS	HI 9146
Range	O ₂ 0.00 to 45.00 mg/L (ppm) % Saturation O ₂ 0.0 to 300.0%
Resolution	O ₂ 0.0 to 50.0°C % 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 ±0.2°C (excluding probe error)
Dissolved Oxygen Calibration	one or two points at 0% (HI 7040 solution) and 100% (in air)
Temperature Compensation	automatic, 0 to 50°C (32 to 122°F)
Altitude Compensation	0 to 4000 m (resolution 100 m)
Salinity Compensation	0 to 80 g/L (ppt) (resolution 1 g/L)
Probe	HI 76407/4F polarographic DO probe, internal temperature sensor, DIN connector and 2 m (6.6') cable (included)
Battery Type / Life	1.5V AAA (3)/approximately 200 hours of continuous use without backlight (50 hours with backlight on)
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.