

HI 96732

Dissolved Oxygen Portable Photometer

- CAL CHECK™
- User calibration
- Certified calibration and verification standards
- BEPS (Battery Error Prevention System)
- TIMER function
- Auto shut-off
- GLP Features

In aquaculture, dissolved oxygen is arguably the most important parameter of water quality. Most species require a minimum of 3 mg/L (ppm) DO, 8-10 mg/L (ppm) is preferable. Unlike other gases such as nitrogen, oxygen supersaturation doesn't usually result in gas bubble disease ("pop-eye"), so high levels generally aren't an issue.

The HI 96732 measures the content of dissolved oxygen (O_2) in surface, feed, natural and waste waters in the 0.0 to 10.0 mg/L (ppm) range.

HI 96732 uses an exclusive positive-locking system to ensure that the cuvette is in the same place every time it is placed into the measurement cell.



Dissolved oxygen analysis measures the amount of gaseous oxygen (O_2) dissolved in an aqueous solution. Dissolved oxygen is one of the most important parameters in aquatic systems. This gas is an absolute requirement for the metabolism of aerobic organisms and also influences inorganic chemical reactions. Therefore, knowledge of the solubility and dynamics of oxygen distribution is essential to interpreting both biological and chemical processes within water bodies. Oxygen gets into water by diffusion from the surrounding air, by aeration (rapid movement) and as a waste product of photosynthesis. The amount of oxygen (or any gas) that can dissolve in pure water (saturation point) is inversely proportional to the temperature of water; the warmer the water, the less dissolved oxygen.

ORDERING INFORMATION

HI 96732 is supplied with sample cuvettes (2) with caps, 60 mL glass bottle with stopper, 9V battery and instruction manual

CAL CHECK™ standards and testing reagents sold separately

REAGENTS AND STANDARDS

HI 96732-11 CAL CHECK™ standard cuvettes
 HI 93732-01 Reagents for 100 tests
 HI 93732-03 Reagents for 300 tests

SPECIFICATIONS	HI 96732 Oxygen, Dissolved
Range	0.0 to 10.0 mg/L (ppm)
Resolution	0.1 mg/L (ppm)
Accuracy @ 25°C (77°F)	±0.2 mg/L ±3% of reading
Light Source	light emitting diode
Light Detector	silicon photocell with narrow band interference filter @ 466 nm
Power Supply	9V battery
Auto-off	after ten minutes of non-use in measurement mode; after one hour of non-use in calibration mode; with last reading reminder
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	192 x 104 x 69 mm (7.6 x 4.1 x 2.7")
Weight	360 g (12.7 oz.)
Method	modified Winkler method

The reagents are in liquid form and are supplied in bottles. The amount of reagent is precisely dosed to ensure maximum repeatability.

For a complete list of Reagents, see Reagents Section 18.