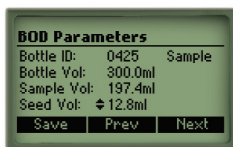




HI 98186 Dissolved Oxygen and BOD Meter

with Backlit Graphic LCD Display

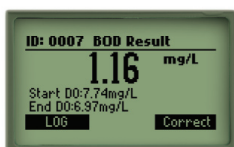
Screen Highlights



BOD Parameters and Records

All necessary parameters for BOD testing can be set and displayed at once.

A list of all saved BOD data can be easily retrieved and shown on the LCD display.



BOD Results

BOD is calculated in mg per liter from the difference between the initial and final dissolved oxygen concentration readings.



OUR Results

Measured in mg of oxygen consumed per L per hour.



SOUR Results

Measured in mg of oxygen consumed per g of volatile suspended solids per hour.

BOD gives an indication of the biodegradable organic material present in a sample of water. The dissolved oxygen concentration is measured before and after an incubation period of 5 days and the BOD is calculated in mg per liter from the difference.

OUR and **SOUR** are used to determine the oxygen consumption or respiration rate. OUR is measured in mg of oxygen consumed per liter per hour, and SOUR is measured in mg of oxygen consumed per gram of volatile suspended solids per hour.

Industrial Grade Portable with Extended Range

HI 98186 dissolved oxygen meter includes barometric pressure measurement and calibration with a user selectable unit (mmHg, inHg, atm, mbar, psi, kPa) along with salinity, pressure and temperature compensation.

- Extended range up to 50 ppm and 600% saturation
- Built-in barometer
- Salinity, pressure and temperature compensation

Inductive charger

Batteries can be recharged using HANNA's inductive recharger. Simply leave the meter on the charger for a few hours and you're ready to go. The charger can be powered using the included HANNA adapter.



SPECIFICATIONS

HI 98186

Range	Dissolved Oxygen	0.00 to 50.00 ppm; 0.0 to 600.0 % saturation
	Barometric Pressure	450 to 850 mmHg
	Salinity Compensation	0 to 70 ppt (g/L)
	Temperature	-20.0 to 120.0°C (-4.0 to 248.0°F)
Resolution	Dissolved Oxygen	0.01 ppm; 0.1% saturation
	Barometric Pressure	1 mm Hg
	Temperature	0.1°C/°F
Accuracy	Dissolved Oxygen	0 to 300%: ±1.5% of reading or ±1.0%, whichever is greater; 300 to 600%: ±3% of reading; 0 to 30 mg/L: ±1.5% of reading or 0.10 mg/L, whichever is greater; 30 mg/L to 50 mg/L: ±3% of reading
	Barometric Pressure	± 3 mmHg within ±15% from the calibration point
	Temperature	±0.2°C/±0.4°F (excluding probe error)
Measurement Modes		Direct DO; BOD (biochemical oxygen demand); OUR (oxygen uptake rate); SOUR (specific oxygen uptake rate)
Calibration	Dissolved Oxygen	Automatic, 1 or 2 points or manual, 1 point
	Barometric Pressure	1 point
	Temperature	1 or 2 points
Temperature Compensation		Automatic from 0.0 to 50.0°C (32.0 to 122.0°F)
Probe	HI 76407/4F Polarographic with built-in temperature sensor + 4m cable	
Logging	Log-on-demand 400 samples	
PC Connectivity	Opto-isolated USB (with HI 92000 software)	
Battery Type/Life	(4) 1.2V AA rechargeable batteries/approx. 200 hrs continuous use (without backlight); HI 710042 inductive recharger (included)	
Auto-off	User Selectable: 5, 10, 30, 60 min or can be disabled	
Environment / Dimensions / Weight	IP67 / 226.5 x 95 x 52 mm (8.9 x 3.75 x 2") / 525 g (1.1 lbs.)	

ORDERING INFORMATION

HI 98186-01 (115V) and **HI 98186-02** (230V) are supplied with HI 76407/4F dissolved oxygen probe with built-in temperature sensor with 4 m (13') cable; (2) spare membranes; electrolyte solution; (4) rechargeable batteries; HI 710042 inductive battery charger with power adapter; rugged carrying case and instructions.

PROBES

- HI 76407/10** DO probe with 10 m (33') cable
- HI 76407/20** DO probe with 20 m (67') cable
- HI 76407A/P** 5 spare membranes

SOLUTIONS

- HI 7040M** Zero oxygen solution, 250 mL
- HI 7040L** Zero oxygen solution, 500 mL
- HI 7041S** Electrolyte solution, 30 mL