HI98193 Professional Waterproof Meter

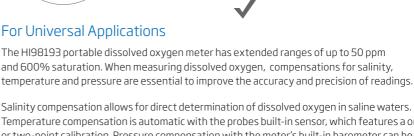
Dissolved Oxygen and BOD

- Waterproof
 - IP67 rated waterproof, rugged enclosure
- Choice of units
 - · Display units in % saturation or mg/L (ppm)

 Salinity compensation · Users can set the salinity value

- Automatic pressure compensation
- Built-in barometer with user-selectable units (mmHg, inHg, atm, psi, kPa, mbar)
- · Built-in calculations
 - Determination of Biochemical Oxygen Demand (BOD), Oxygen Uptake Rate (OUR) and Specific Oxygen Uptake Rate (SOUR)
- Polarization
 - · Automatic polarization of probe at startup
- Membrane caps
 - Ready-to-use PTFE preformed membrane caps
- Log-on-demand
 - · Store measurement data at the press of a button
- GLP
 - · GLP data provides data from previous calibration to ensure Good Laboratory Practices are met
- AutoHold
 - · Automatically holds the first stable reading on the display
- Calibration timeout
 - Alerts when calibration is due at a specified interval
- Help menu
 - On-screen context specific help is readily available at the press of a button
- Backlit LCD
- Clear display
 - Dot matrix display with multifunction virtual keys
- Intuitive keypad
- · Most of the available options such as GLP information, help, range, calibration and backlight have a dedicated button
- Connectivity
 - PC connectivity via opto-isolated micro-USB with HI92000 software





12:33:21 DO

761mmHg

LOG

mg/L

24.3°C

AutoEnd

RANGE

MODE

www.depolab-indonesia.com

Ouick Connect

Probe

Temperature compensation is automatic with the probes built-in sensor, which features a one or two-point calibration. Pressure compensation with the meter's built-in barometer can be validated against a reference barometer, and if needed, can be recalibrated in user-selectable units (mmHg, inHg, atm, psi, kPa, mbar). With the internal barometer, the HI98193 is able to compensate for changes in barometric pressure so there is no need for charts, altitude information or external barometric pressure information.

Other features include measurement, methods and calculations for BOD, OUR and SOUR.

Quick connect probe

The HI764073 polarographic dissolved oxygen probe features a quick connect DIN connector to make attaching and removing the probe simple and easy.

Data Logging

The HI98193's log-on-demand features allows users to store up to 400 samples that can be later transferred to a PC with the HI920015 USB cable and HI92000 software.





Specifications		HI98193	
	Range	0.00 to 50.00 mg/L (ppm); 0.0 to 600.0% saturation	
DO	Resolution	0.01 mg/L (ppm); 0.1% saturation	
	Accuracy (@25°C/77°F)	±1.5% of reading ±1 digit	
	Calibration	automatic one or two point at 100 % (8.26 mg/L) and 0 % (0 mg/L),; manual one point using a value entered by the user in % saturation or mg/L	
	Range	450 to 850 mmHg	
Atmospheric Pressure	Resolution	1 mmHg	
	Accuracy (@25°C/77°F)	\pm 3 mmHg within \pm 15% from the calibration point	
	Calibration	one point at any in range pressure value	
	Range	-20.0 to 120.0°C; -4.0 to 248.0°F	
Temperature	Resolution	0.1°C; 0.1°F	
	Accuracy (@25°C/77°F)	±0.2°C; ±0.4°F (excluding probe error)	
	Calibration	one or two point at any in range temperature value	
Additional Specifications	Measurement Modes	direct DO; BOD (biochemical oxygen demand); OUR (oxyge uptake rate); SOUR (specific oxygen uptake rate)	
	Barometric Compensation	automatic from 450 to 850 mmHg	
	Salinity Compensation	automatic from 0 to 70 g/L	
	Temperature Compensation	automatic from 0.0 to 50.0 °C (32.0 to 122.0 °F)	
	Probe	HI764073 polarographic DO probe with protective sleeve internal temperature sensor, DIN connector and 4m (13') cable (included)	
	Logging	log-on-demand up to 400 samples	
	PC Connectivity	opto-isolated USB (with HI92000 software)	
	Battery Type / Life	1.5V (4) AA batteries / approximately 200 hours of continuous use without backlight (50 hours with backlight	
	Auto-off	user-selectable: 5, 10, 30, 60 min or can be disabled	
	Environment	0 to 50°C (32 to 122°F); RH 100% IP67	
	Dimensions	185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4")	
	Weight	400 g (14.2 oz.)	
Ordering Information	PTFE membrane caps (2), HI HI7041S electrolyte solution beaker (2), HI92000 PC softv	764073 DO probe with protective sleeve, pre-formed 7040 bi-component zero oxygen solution (230 mL), (30 mL), DO protective cap, o-rings (2), 100 mL plastic vare, HI920015 micro USB cable, 1.5V AA batteries (4), rrt guide, quality certificate and HI720193 rugged iermoformed insert.	

DO solutions begin on page 7.21

On-screen Features



• BOD results

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

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Bottle ID:	0425	Sample
Bottle Vol:	300.0mL	a survey as
Sample Vol:	197.4mL	
Seed Vol: #	\$12.8mL	
Save	Prev	Next

• 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.



• 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.



Dissolved Oxygen