HI98196

Multiparameter Waterproof Meter

pH / mV, ORP, Dissolved Oxygen, Atmospheric Pressure and Temperature

- Waterproof
 - IP67 rated waterproof, rugged enclosure for meter, IP68 for probe
- Digital probe
 - Digital probe with two connections for pH (ORP) and DO sensors and integral temperature sensor
- Color coded, field replaceable sensors
- Auto-sensor recognition
- Quick calibration feature
- Automatic temperature compensation
- Automatic logging
 - Store up to 45,000 samples
- GLP
 - GLP data provides data from previous five calibrations to ensure Good Laboratory Practices are met
- · Dedicated help key
 - On-screen context specific help is readily available at the press of a button
- Backlit LCD display with multifunction virtual keys
- Intuitive keypad
 - · Hard and virtual soft keys
- Connectivity
 - PC connectivity via opto-isolated micro-USB with Hanna software
- Up to 360 hours of battery life
 - · Powered by (4) 1.5V AA batteries



- Quick Connect Probe
 - Built in barometer for DO concentration in meter





For Universal Applications

HI98196 provides multiparameter measurement in a compact and rugged, IP67 waterproof enclosure. Ideal for demanding applications, each meter features our rugged, quick connect multi-function probe with field replaceable sensors.

A backlit, graphic LCD provides easy to read resolution even in low-lit areas. A combination of dedicated and soft keys allows easy, intuitive operation in a choice of languages.

Data Logging

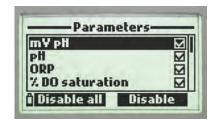
TheHI98196 allows users to store up to 45,000 continuous or log-on-demand samples with logging intervals from one second to three hours. Logged data can be later transferred to a PC with the HI920015 micro USB cable and HI929828 software.

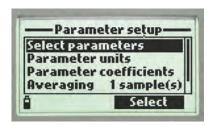
GLP and On-Screen Help

Comprehensive GLP data includes data from last five calibrations. The contextual Help Menu can be accesssed to obtain on-screen information and assistance about each feature at the touch of a button.

Quick connect probe

The HI7698196 probe features a quick connect DIN connector to make attaching and removing the probe simple and easy.







Dissolved Oyygon

• Calibration

pH Specific Features

 Up to a three point calibration with five standard buffers and one custom buffer available

Dissolved Oxygen Specific Features

- Choice of units
 - Display units in % saturation or mq/L (ppm)
- Salinity compensation for concentration
- Pressure compensation for concentration
 - Built-in barometer with user-selectable units (mmHg, inHg, atm, psi, kPa, mbar)
- Temperature compensation
- Polarization
 - Automatic polarization of probe at startup
- Membrane caps
 - Ready-to-use HDPE pre-tensioned membrane caps are easy to replace



· Extensive setup screen features



• rugged carrying case with custom thermoformed insert included





Specifications	HI7698196		
Sensor inputs	two (pH/ORP, DO)		
Sample Environment	Fresh, brackish, seav	vater	
waterproof Protection	IP68		
Operating Temperature	-5 to 55°C		
Storage Temperature	-20 to 70°C		
Maximum Depth	20 m (66')		
Dimensions (without cable)	342 mm (13.5"); 46 mm (1.8") dia		
Weight (without batteries and sensors)	570 g (20.1 oz.)		
Cable specification	Multistrand-multiconductor shielded cable with internal strength member rated for 68 kg (150 lb.) intermittent use.		
	Body	ABS	
	Threads	Nylon	
Wetted Materials	Shield	ABS/316SS	
	Temperature Probe	316 SS	
	O-rings	EPDM	

Multi-function Sensor

- Quick sensor replacement
 - · Sensor replacement is quick and easy with field replaceable, screw type connectors and are color coded for easy identification. The these meters automatically recognize sensors







Sensor Specification	ins	HI7698194-0	HI7698194-1	HI7698194-2
Description		pH sensor	pH/ORP sensor	D0 sensor
Measurement Type		pH, mV (pH)	pH, mV (pH/ORP)	DO (% saturation and concentration
Measurement Range		0.00 to 13.00 pH ; ±600.0 mV	0.00 to 13.00 pH; ± 600.0 mV; ± 2000.0 mV	0.0 to 500.0 %; 0.00 to 50.00 mg/L
Temperature Range		-5 to 55°C	-5 to 55°C	-5 to 55°C
Color Code		red	red	white
Materials	Tip	glass (pH)	glass (pH); Pt (ORP)	Cat/An: Ag/Zn
	Junction	ceramic	ceramic	Membrane: HDPE
	Body	PEI	PEI	white top ABS
	Electrolyte	gel	gel	
	Reference	double	double	
Maintenance solution		HI70300 (storage solution)	HI70300 (storage solution)	HI7042S (DO electrolyte)
Dimensions		118 x 15 mm	118 x 15 mm	99 x 17 mm
Depth		20 m (65')	20 m (65')	20 m (65')





Specifications		HI98196	
pH/mV	Range	0.00 to 14.00 pH / ±600.0 mV	
	Resolution	0.01 pH/0.1 mV	
	Accuracy	±0.02 pH/±0.5 mV	
	Calibration	automatic one, two, or three points with automatic recognition of five standard buffers (pH 4.01, 6.86, 7.01, 9.18, 10.01) or one custom buffer	
ORP	Range	±2000.0 mV	
	Resolution	0.1 mV	
	Accuracy	±1.0 mV	
	Calibration	automatic at one custom point (relative mV)	
Dissolved Oxygen	Range	0.0 to 500.0%; 0.00 to 50.00 ppm (mg/L)	
	Resolution	0.1%; 0.01 ppm (mg/L)	
	Accuracy	0.0 to 300.0%: $\pm 1.5\%$ of reading or $\pm 1.0\%$ whichever is greater; 300.0 to 500.0%: $\pm 3\%$ of reading; 0.00 to 30.00 ppm (mg/L): $\pm 1.5\%$ of reading or ± 0.10 ppm (mg/L), whichever is greater; 30.00 ppm (mg/L) to 50.00 ppm (mg/L): $\pm 3\%$ of reading	
	Calibration	automatic one or two points at 0, 100% or one custom point	
Atmospheric Pressure	Range	450 to 850 mm Hg; 17.72 to 33.46 in Hg; 600.0 to 1133.2 mbar; 8.702 to 16.436 psi; 0.5921 to 1.1184 atm; 60.00 to 113.32 kPa	
	Resolution	0.1 mm Hg; 0.01 in Hg; 0.1 mbar; 0.001 psi; 0.0001 atm; 0.01 kPa	
	Accuracy	$\pm 3\text{mm}\text{Hg}$ within $\pm 15^{\circ}\text{C}$ from the temperature during calibration	
	Calibration	automatic at one custom point	
	Range	-5.00 to 55.00°C; 23.00 to 131.00°F; 268.15 to 328.15K	
Temperature	Resolution	0.01°C; 0.01°F; 0.01K	
	Accuracy	±0.15°C; ±0.27°F; ±0.15K	
	Calibration	Automatic at one custom point	
Additional Specifications	Temperature Compensation	automatic from -5 to 55°C (23 to 131°F)	
	Logging Memory	45,000 records (continuous logging or log-on-demand of all parameters)	
	Logging Interval	one second to three hours	
	PC Connectivity	via USB (with Hanna PC software)	
	Environment	0 to 50°C (32 to 122°F); RH 100% IP67	
	Battery Type / Life	1.5V AA batteries (4) / approximately 360 hours of continuous use without backlight (50 hours with backlight)	
	Dimensions / Weight	185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4") / 400 g (14.2 oz.)	
Ordering Information	HI98196 is supplied with HI7698196 probe, HI7698194-0 pH sensor, HI7698194-2 DO sensor, Hanna PC software, HI920015 micro USB cable, 1.5V AA batteries (4), instruction manual, quick start guide, quality certificate and rugged carrying case with custom thermoformed insert.		

