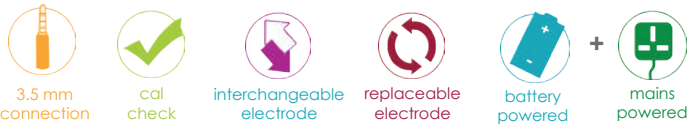


Waterproof pH / ORP / ISE Meter | HI-98191



professional waterproof meter

IP67 for ideal for universal application



The HI-98191 is an IP67 rated waterproof meter designed for universal applications.

Exchange the pH probe for an ORP probe to obtain mV readings in the +/- 2000 mV range.

For ISE - the HI-98191 adds direct ion concentration readings with a choice of units for calibration and display

Summary of features

- Rugged, IP67 enclosure
- ISE measurement with extensive choice of units
- Calcheck™
- Automatic or manual compensation
- Calibration
- GLP data to support good laboratory practice
- Autohold holds first stable reading on display
- Log-on demand
- Calibration timeout at specified interval
- On-screen help menu
- Clear display and intuitive keypad
- PC connectivity
- 200 hour battery life

Authorised distributor



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Waterproof pH / ORP / ISE Meter | HI-98191



A great set of benefits

ISE sensors and calibration

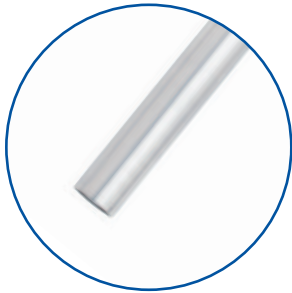
The HI-98191 has 17 different standard ISE sensors pre-programmed into the meter. Selecting the appropriate sensor will automatically update the ion charge for slope calibration. It can be calibrated up to five points with the choice of seven standards and five custom standards or choice of units.

Extensive choice of measurement units:

ppm; ppt; g/L; ppb; µg/L; mg/mL; M; mol/L; %w/v; user

Expanded measuring range:

1.00×10^{-7} ; 9.99×10^{10}



pH Calibration

Choose from seven standard pH buffers and five custom pH buffers to obtain up to five point calibration and achieve high precision readings with a pH accuracy of +/- 0.002 and up to +/- 0.001 pH resolution.



Calcheck™

The Hanna Calcheck™ maintains a history of past calibrations. It also monitors the pH electrode and buffers during subsequent calibrations for any signs of wide variances due to dirty or broken electrodes or contaminated pH buffers.

During calibration users are alerted to problems should they occur. After calibration, the electrode's overall condition is displayed as a percentage.



This instrument can be easily operated with one hand and is housed in an IP67 rated waterproof, rugged enclosure. The meter and accessories all fit in our rugged, custom thermoformed carrying case.

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Ordering Information

Waterproof pH / ORP / ISE Meter | HI-98191

supplied with

- HI-72911B pH electrode
- HI-7662 temperature Probe
- HI-7004M pH 4.01 buffer solution (230 mL)
- HI-7007M pH 7.01 buffer solution (230 mL)
- electrode general cleaning solution sachet (2)
- 100 mL plastic beaker (2)
- HI-92000 PC software
- HI-920015 micro USB cable
- 1.5V AA batteries (4)
- instruction manual
- quick quick start guide
- quality certificate
- HI-720191 rugged carrying case with custom thermoformed insert



Specifications

Product Code	HI-98191	
pH*	Range	-2.0 to 20.0 pH; -2.00 to 20.00 pH; -2.000 to 20.000 pH
	Resolution	0.1 pH; 0.01 pH; 0.001 pH
	Accuracy	±0.1 pH; ±0.01 pH; ±0.002 pH
	Calibration	up to five-point calibration, seven standard buffers available (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) and five custom buffers
mV*	Range	±2000 mV
	Resolution	0.1 mV
	Accuracy	±0.2 mV
	Relative mV Offset Range	±2000 mV
ISE	Range	from 1.00 E ⁻⁷ to 9.99 E ¹⁰ concentration
	Resolution	3 digits 0.01; 0.1; 1; 10 concentration
	Accuracy	±0.5% of reading (monovalent ions), ±1% of reading (divalent ions)
	Calibration	up to five point calibration, seven standard solutions available
Temperature	Range	-20.0 to 120.0 °C (-4.0 to 248.0°F)
	Resolution	0.1 °C (0.1 °F)
	Accuracy	±0.4°C (±0.8°F) (excluding probe error)
pH Probe	HI98191: HI72911B titanium body, pH electrode with internal temperature sensor, BNC connector and 1 m cable	
Slope Calibration	from 80 to 110%	
Log-on-demand	300 samples (100 each pH/mV/ISE range)	
PC Connection	opto-isolated USB with HI92000 software and micro USB cable	
Input Impedance	10 ¹² Ω	
Battery Type / Life	1.5V AA batteries (4) / approximately 200 hours of continuous use without backlight (50 hours with backlight)	
Auto-off	user selectable: 5, 10, 30, 60 min, disabled	
Environment	0 to 50°C (32 to 122°F); RH 100% IP67	
Dimensions / Weight	185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4") / 400 g	

* Limits will be reduced to actual sensor limits

Authorised distributor