



Multiparameter Waterproof Meters

Multiparameter measurement in compact, IP67 rated waterproof enclosures



HI98194

Multiparameter Waterproof Meter

pH, ORP, EC, TDS, Resistivity, Salinity, Seawater σ, Dissolved Oxygen, Atmospheric Pressure and Temperature

- Waterproof
 - IP67 rated waterproof, rugged enclosure for meter, IP68 for probe
- Digital probe
 - Digital probe with integral temperature sensor and three ports for pH (ORP), EC and DO sensors
- · Color coded, field replaceable sensors
- Auto-sensor recognition
- · Quick calibration feature
- Automatic barometric pressure compensation
- Automatic temperature compensation
- · Automatic logging
 - Store up to 45,000 samples
- Log-on-demand
 - Store measurement data at the press of a button
- 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
 - · Dedicated 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
 - · Fast, secure and waterproof connection



For Universal Applications

HI98184 provides multiparameter measurement in a compact and rugged, IP67 waterproof enclosure. Ideal for demanding applications, this meter features our rugged, quick connect digital 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

The HI98194 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 Hanna HI9298194 software.

Dedicated HELP Button

The contextual HELP menu can be accessed to obtain on-screen information and assistance about each feature at the touch of a button.

Quick Connect Probe

The HI7698194 probe features a quick connect DIN connector to make attaching and removing the probe simple and easy.

pH: Specific Features

- Calibration
 - Up to a three-point calibration with five standard buffers and one custom buffer available
- pH in mV option
 - Useful for diagnostics
- GLP data
 - Offset, slope, date, time and buffers used
- Automatically temperature compensated readings
- pH or pH/ORP field replaceable sensors
 - · Gel-filled and maintenance free
 - Double junction for reduced contamination of reference cell

Dissolved Oxygen: Specific Features

- · Choice of units
 - · Display units in % saturation or ppm (mg/L)
- Salinity compensation for saline waters
 - · Manual entry of salinity values
 - · Readings compensated for salinity effects
- · Built-in barometer
 - Automatic compensation for changes in atmospheric pressure
 - · User selectable units
- Temperature compensation
- Polarization
 - Automatic polarization of probe at startup
- Membrane caps
 - Ready-to-use HDPE pre-tensioned membrane caps are easy to replace

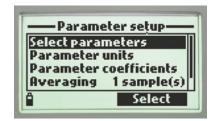
EC/TDS/Resistivity: Specific Features

- Calibration
 - Single-point calibration from six standards (84 μS/cm, 1.413 μS/cm, 5.00 mS/cm, 12.88 mS/cm, 80 mS/cm, 111.8 mS/cm or custom point)
- Temperature compensation
 - · Automatic Temperature Compensation
 - Configurable temperature coefficient range from 0.00 to 6.00%/°C
 - Choice of reference temperatures at 20 or 25°C
 - Absolute conductivity can be displayed along with the temperature compensated value
- Auto-ranging
- Salinity readings
 - Practical Salinity Scale (PSU) based on conductivity calibration

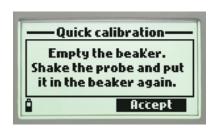


HI9828-25 Quick Calibration

- Field ready with Quick Calibration solution
 - Standardize pH and conductivity with one calibration solution
 - Simply screw the calibration beaker filled with HI 9828-25 (500 mL) or HI9828-27 (1 gallon) solution onto the probe, select "Quick calibration" from the menu and press OK. Individual calibration may also be performed using multiple calibration points



- Setup
 - · Extensive setup screen features



- Guides
 - On screen guides are displayed to help you while performing procedures such as calibration



 Rugged carrying case with custom insert included



HI98194 Probe and Sensor Features and Specifications



Probe Specifications	HI7698194			
Sensor Inputs	three (pH or pH/ORP, DO, EC)			
Sample Environment	fresh, brackish, seaw	rater		
Waterproof Protection	IP68	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 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 / 316 SS		
	Temperature Probe	316 SS		
	0-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. These meters automatically recognize sensors.



Sensor Specification	s	HI7698194-0	HI7698194-1	HI7698194-3	HI7698194-2
Description		pH sensor	pH/ORP sensor	EC sensor	D0 sensor
Measurement Type		pH, mV (pH)	pH, mV (pH), ORP	EC	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 200.0 mS/cm; 0.0 to 400 mS/cm (absolute)	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	-5 to 55°C
Color Code		red	red	blue	white
	Tip	glass (pH)	glass (pH); Pt (ORP)	stainless steel electrodes AISI 316	cat/an: Ag/Zn
	Junction	ceramic	ceramic		membrane: HDPE
Materials	Body	PEI	PEI	ABS/epoxy	white top ABS
	Electrolyte	gel	gel		
	Reference	double	double		
Maintenance Solution		HI70300 (storage solution)	HI70300 (storage solution)	none	HI7042S (DO electrolyte)
Dimensions		118 x 15 mm	118 x 15 mm	111 x 17 mm	99 x 17 mm
Depth		20 m (65')	20 m (65')	20 m (65')	20 m (65')

Specifications		HI98194
	Range	0.00 to 14.00 pH / ±600.0 mV
pH/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
	Range	±2000.0 mV
	Resolution	0.1 mV
ORP	Accuracy	±1.0 mV
	Calibration	automatic at one custom point (relative mV)
	Range	0 to 200 mS/cm (absolute EC up to 400 mS/cm)
EC	Resolution	manual: 1 μS/cm; 0.001 mS/cm; 0.01 mS/cm; 0.1 mS/cm; 1 mS/cm; automatic: 1 μS/cm from 0 to 9999 μS/cm; 0.01 mS/cm from 10.00 to 99.99 mS/cm; 0.1 mS/cm from 100.0 to 400.0 mS/cm; automatic mS/cm: 0.001 mS/cm from 0.000 to 9.999 mS/cm; 0.01 mS/cm from 10.00 to 99.99 mS/cm; 0.1 mS/cm from 100.0 to 400.0 mS/cm
	Accuracy	±1% of reading or ±1 µS/cm whichever is greater
	Calibration	automatic single point, with six standard solutions (84 μS/cm, 1413 μS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm) or custom point
	Range	0.0 to 400.0 ppt (g/L) (the maximum value depends on the TDS factor)
TDS	Resolution	manual: 1 ppm (mg/L); 0.001 ppt (g/L); 0.01 ppt (g/L); 0.1 ppt (g/L); 1 ppt (g/L); automatic: 1 ppm (mg/L) from 0 to 9999 ppm (mg/L); 0.01 ppt (g/L) from 10.00 to 99.99 ppt (g/L); 0.1 ppt (g/L) from 10.00 to 99.99 ppt (g/L); 0.01 ppt (g/L
	Accuracy	±1% of reading or ±1 ppm (mg/L) whichever is greater
	Calibration	based on conductivity calibration
	Range	0 to 999999 Ω•cm; 0 to 1000.0 kΩ•cm; 0 to 1.0000 MΩ•cm
Resistivity	Resolution	dependent on resistivity reading
	Calibration	based on conductivity calibration
	Range	0.00 to 70.00 PSU
Calinity	Resolution	0.01 PSU
Salinity	Accuracy	±2% of reading or ±0.01 PSU whichever is greater
	Calibration	based on conductivity calibration
	Range	0.0 to $50.0 \sigma_{v}, \sigma_{0}, \sigma_{15}$
Seawater σ	Resolution	$0.1\sigma_{\scriptscriptstyle l'}\sigma_{\scriptscriptstyle 0},\sigma_{\scriptscriptstyle 15}$
Seawater 0	Accuracy	$\pm 1\sigma_{\scriptscriptstyle \rm f},\sigma_{\rm 0},\sigma_{\rm 15}$
	Calibration	based on conductivity calibration
	Range	0.0 to 500.0%; 0.00 to 50.00 ppm (mg/L)
Discolused	Resolution	0.1%; 0.01 ppm (mg/L)
Dissolved Oxygen	Accuracy	$0.0to300.0\%:\pm1.5\%ofreadingor\pm1.0\%whicheverisgreater;\\300.0to500.0\%:\pm3\%ofreading;\\0.00to30.00ppm(mg/L):\pm1.5\%ofreadingor\pm0.10ppm(mg/L),\\whicheverisgreater;\\30.00ppm(mg/L)to50.00ppm(mg/L):\pm3\%ofreading$
	Calibration	automatic one or two points at 0, 100% or one custom point
	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
Atmospheric	Resolution	0.1 mm Hg; 0.01 in Hg; 0.1 mbar; 0.001 psi; 0.0001 atm; 0.01 kPa
Pressure	Accuracy	±3 mm Hg within ±15°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
Temperature	Accuracy	±0.15°C; ±0.27°F; ±0.15K
	Calibration	automatic at one custom point
Additional	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
Specifications	PCConnectivity	via USB (with Hanna PC software)
	Environment	0 to 50°C (32 to 122°F); RH 100% IP67
	Battery Type / Life	1.5 VAAbatteries(4)/approximately360hoursofcontinuoususewithoutbacklight(50hourswithbacklight)
	Dimensions / Weight	185 x 93 x 35.2 mm (7.3 x 3.6 x 1.4") / 400 g (14.2 oz.)

HI98195

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pH, ORP, EC, TDS, Resistivity, Salinity, Seawater σ and Temperature

- Waterproof
 - IP67 rated waterproof, rugged enclosure for meter, IP68 for probe
- Digital probe
 - Digital probe with integral temperature sensor and two ports for pH (ORP) and EC sensors
- Color coded, field replaceable sensors
- Auto-sensor recognition
- Quick calibration feature
- Automatic temperature compensation
- Automatic logging
 - Store up to 45,000 samples
- Log-on-demand
 - Store measurement data at the press of a button
- GLP
 - GLP data provides data from previous five calibrations to ensure Good Laboratory Practices are met
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GLP and On-Screen Help

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

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pH: Specific Features

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 - Up to a three-point calibration with five standard buffers and one custom buffer available
- pH in mV option
 - Useful for diagnostics
- GLP data
 - Offset, slope, date, time and buffers used
- Automatically temperature compensated readings
- pH or pH/ORP field replaceable sensors
 - · Gel-filled and maintenance free
 - Double junction for reduced contamination of reference cell

EC/TDS/Resistivity: Specific Features

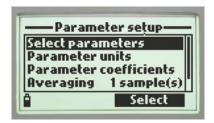
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 - · Automatic Temperature Compensation
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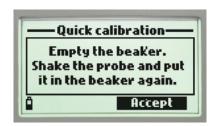
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 - Extensive setup screen features



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HI98195 Probe and Sensor Features and Specifications

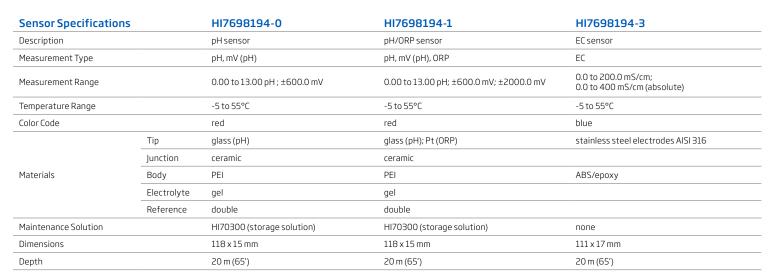


Multi-function Sensor

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

Specifications	HI7698195	HI7698195	
Sensor Inputs	two (pH or pH/ORP, E	two (pH or pH/ORP, EC)	
Sample Environment	fresh, brackish, seaw	vater	
Waterproof Protection	IP68		
Operating Temperature	-5 to 55°C		
Storage Temperature	-20 to 70°C		
Maximum Depth	20 m (66')	20 m (66')	
Dimensions (without cable)	342 mm (13.5"); 46 m	342 mm (13.5"); 46 mm (1.8") dia	
Weight (without sensors)	570 g (20.1 oz.)	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 / 316 SS	
	Temperature Probe	316 SS	
	O-rings	EPDM	





Specifications		HI98195	
Range		0.00 to 14.00 pH / ±600.0 mV	
pH/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	
	Range	±2000.0 mV	
ORP	Resolution	0.1 mV	
OKF	Accuracy	±1.0 mV	
	Calibration	automatic at one custom point (relative mV)	
	Range	0 to 200 mS/cm (absolute EC up to 400 mS/cm)	
EC	Resolution	manual: 1 μS/cm; 0.001 mS/cm; 0.01 mS/cm; 0.1 mS/cm; 1 mS/cm; automatic: 1 μS/cm from 0 to 9999 μS/cm; 0.01 mS/cm from 10.00 to 99.99 mS/cm; 0.1 mS/cm from 100.0 to 400.0 mS/cm; automatic mS/cm: 0.001 mS/cm from 0.000 to 9.999 mS/cm; 0.01 mS/cm from 10.00 to 99.99 mS/cm; 0.1 mS/cm from 100.0 to 400.0 mS/cm	
	Accuracy	±1% of reading or ±1 µS/cm whichever is greater	
	Calibration	automatic single point, with six standard solutions (84 μS/cm, 1413 μS/cm, 5.00 mS/cm, 12.88 mS/cm, 80.0 mS/cm, 111.8 mS/cm) or custom point	
	Range	0.0 to 400.0 ppt (g/L) (the maximum value depends on the TDS factor)	
TDS	Resolution	nanual: 1 ppm (mg/L); 0.001 ppt (g/L); 0.01 ppt (g/L); 0.1 ppt (g/L); 1 ppt (g/L); utomatic: 1 ppm (mg/L); 0.01 ppt (g/L); 0.01 ppt (g/L); 0.01 ppt (g/L); 0.1 ppt (g/L); 0.1 ppt (g/L) from 100.0 to 400.0 ppt (g/L); utomatic ppt (g/L); 0.001 ppt (g/L) from 0.000 to 9.999 ppt (g/L); 0.01 ppt (g/L); 0.001 ppt (g/L); 0.001 ppt (g/L); 0.001 ppt (g/L); 0.001 ppt (g/L);	
	Accuracy	±1% of reading or ±1 ppm (mg/L) whichever is greater	
	Calibration	based on conductivity or salinity calibration	
	Range	0 to 999999 Ω•cm; 0 to 1000.0 kΩ•cm; 0 to 1.0000 MΩ•cm	
Resistivity	Resolution	dependent on resistivity reading	
	Calibration	based on conductivity or salinity calibration	
	Range	0.00 to 70.00 PSU	
C-ll-ll	Resolution	0.01 PSU	
Salinity	Accuracy	±2% of reading or ±0.01 PSU whichever is greater	
	Calibration	based on conductivity calibration	
	Range	0.0 to 50.0 σ_{v} , σ_{0} , σ_{15}	
	Resolution	$0.1\sigma_{\scriptscriptstyle 1},\sigma_{\scriptscriptstyle 0},\sigma_{\scriptscriptstyle 15}$	
Seawater σ	Accuracy	$\pm 1\sigma_{v},\sigma_{0},\sigma_{15}$	
	Calibration	based on conductivity or salinity calibration	
	Range	-5.00 to 55.00°C; 23.00 to 131.00°F; 268.15 to 328.15K	
_	Resolution	0.01°C; 0.01°F; 0.01K	
Temperature	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	
	PCConnectivity	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.)	

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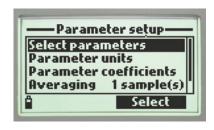
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- Choice of units
 - · Display units in % saturation or ppm (mg/L)
- Salinity compensation for saline waters
 - · Manual entry of salinity values
 - Readings compensated for salinity effects
- Built-in barometer
 - Automatic compensation for changes in atmospheric pressure
 - · User selectable units
- Temperature compensation
- Polarization
 - · Automatic polarization of probe at startup
- Membrane caps
 - Ready-to-use HDPE pre-tensioned membrane caps are easy to replace







- Setup
 - · Extensive setup screen features



 rugged carrying case with custom insert included

HI98196 Probe and Sensor Features and Specifications



Multi-function Sensor

- Quick sensor replacement
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Specifications	HI7698196	HI7698196	
Sensor Inputs	two (pH or pH/ORP, D	two (pH or pH/ORP, DO)	
Sample Environment	fresh, brackish, seaw	fresh, brackish, seawater	
Waterproof Protection	IP68		
Operating Temperature	-5 to 55°C		
Storage Temperature	-20 to 70°C	-20 to 70°C	
Maximum Depth	20 m (66')	20 m (66')	
Dimensions (without cable)	342 mm (13.5"); 46 m	342 mm (13.5"); 46 mm (1.8") dia	
Weight (without sensors)	570 g (20.1 oz.)	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	
Wetted Materials	Threads	Nylon	
	Shield	ABS / 316 SS	
	Temperature Probe	316 SS	
	O-rings	EPDM	







Sensor Specifications	5	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
	Tip	glass (pH)	glass (pH); Pt (ORP)	cat/an: Ag/Zn
	Junction	ceramic	ceramic	membrane: HDPE
Materials	Body	PEI	PEI	white top ABS
	Electrolyte	gel	gel	
	Reference	double	double	
Maintenance Solution		HI70300 (storage solution)	HI70300 (storage solution)	HI7042S (D0 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
	Range	$0.00\mathrm{to}14.00\mathrm{pH}/\pm600.0\mathrm{mV}$
pH/mV	Resolution	$0.01\mathrm{pH}/0.1\mathrm{mV}$
	Accuracy	±0.02 pH / ±0.5 mV
	Calibration	automatic up to three points with automatic recognition of five standard buffers (pH 4.01, 6.86, 7.01, 9.18, 10.01) or one custom buffer
	Range	±2000.0 mV
	Resolution	0.1 mV
ORP	Accuracy	±1.0 mV
	Calibration	automatic at one custom point (relative mV)
	Range	0.0 to 500.0%; 0.00 to 50.00 ppm (mg/L)
	Resolution	0.1%; 0.01 ppm (mg/L)
Dissolved Oxygen	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
	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
Atmospheric	Resolution	0.1 mm Hg; 0.01 in Hg; 0.1 mbar; 0.001 psi; 0.0001 atm; 0.01 kPa
Pressure	Accuracy	±3 mm Hg within ±15°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
Tamananah	Resolution	0.01°C; 0.01°F; 0.01K
Temperature	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





HI98194 includes:





HI7698194-0 pH sensor



HI7698194-3 EC sensor



HI7698194-2 D0 sensor



HI7698195/4 probe

HI98195 includes:



HI7698194-0 pH sensor





HI9828-25 quick calibration solution



HI76981942 probe maintenance kit



HI9828-25 quick calibration solution



HI76981952 probe maintenance kit



HI98196 includes:

HI7698196/4 probe



HI7698194-0 pH sensor







HI9828-25 quick calibration solution



HI76981942 probe maintenance

All meters are also supplied with:



rugged carrying case with custom insert



HI76981943 calibration beaker



HI9298194 PC software



HI920015 micro USB cable



quality certificate



instruction manual



1.5V AA batteries (4)



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Offering research grade quality at competitive prices, every Hanna office strives to work with each customer to develop a solution tailored to their needs, and within their budget.

