

Personalized
Field Kits

Pocket
Testers

Portable
Meters

Multiparameters

Chemical
Test Kits

Your authorized Hanna dealer

1 - 8 0 0 - 8 4 2 - 6 6 2 9
www.hannacan.com
info@hannacan.com

Environmental

Electro-analytical Instrumentation
Lakes, Rivers & Groundwaters



HANNA
instruments
C A N A D A
hennecan.com



About Hanna...

Manufacturers Since 1978

Hanna Instruments supports many industries including laboratories, water conditioning, water treatment, environmental, food processing, pools, agriculture, aquaculture, cooling & boiling.

For over two decades Hanna has prided itself in being the leading innovator in electro-analytical industry. The pocket testers that we introduced in 1986 have literally changed the way pH and EC are measured around the world while the waterproof and logging meters have become the industry standards. These and many more innovations are due to the fact that we believe in a synergy between our customers' needs and the latest technology. This has resulted in simpler and more economical instruments performing even more varied and complicated parameters. To achieve this we have set up our R & D teams in three different continents to draw on the latest global and local technology. The most valuable components of our success however is the dedication of our work force and the feedback that our loyal customers have provided us with.

So please call, send faxes, e-mail or simply write us with any comments, price or technical queries that you may have. The Customer Service and Sales Personnel will be delighted to help you with any questions regarding stock, pricing or availability. Our Technical Staff is also at your disposal for any after-sales service, repairs or application questions.

For information, call:1-800-842-6629
Or fax:450-629-3335
Or e-mail:info@hannacan.com

For technical service, call: .1-800-842-6629
Or fax:450-629-3335
Or e-mail:techserv@hannacan.com

h a n n a c a n . c o m



CONTENTS

- pH / ORP / T° meters4-5**
- Dissolved Oxygen meters6**
- Turbidity meters7**
- Conductivity (EC) / TDS meters8-9**
- Multiparameter meters10-11**
- Colorimeters12**
- Chemical test kits13**
- Customized kits / accessories14**
- Calibration & maintenance solutions .15**

Waterproof pH/ORP/T° Meters

Hanna's new **HI 991001** features a combined HI 1296D pH electrode (included) with a built-in temperature sensor and amplifier. The large display simultaneously shows **pH & T°** in °C or °F. The battery life of the meter guarantees over 1500 hours of continuous use.

The **HI 991002** offers 3 ranges of measurement: **pH, ORP and T°**. The advanced HI 1297D probe (included) incorporates a pH, ORP and temperature sensor all in one unit allowing you to perform all measurements with a single probe. The mV scale of HI 991002 can be used with the available HI 1296D pH/temperature electrode to check the condition of the pH electrode or with HI 3617D to measure ORP.

Hanna also offers the **HI 991003** with all the advanced features of HI 991002 plus an integral pH (in mV) scale that allows the user to check the condition of the pH electrode in the HI 1297D pH/ORP/temperature probe (included).

		HI 991001	HI 991002	HI 991003
Range	pH	-2.00 to 16.00	-2.00 to 16.00	-2.00 to 16.00
	pH (in mV)	-	-	±825 mV
	ORP	-	±1999 mV	±1999 mV
	Temperature	-5.0 to 105.0°C or 23 to 221°F	-5.0 to 105.0°C or 23 to 221°F	-5.0 to 105.0°C or 23 to 221°F
Resolution	pH	0.01	0.01	0.01
	pH (in mV)	-	-	1 mV
	ORP	-	1 mV	1 mV
	Temperature	0.1°C or 0.1°F	0.1°C or 0.1°F	0.1°C or 0.1°F
Accuracy (@20°C/68°F)	pH	±0.02	±0.02	±0.02
	pH (in mV)	-	-	±2 mV
	ORP	-	±2 mV	±2 mV
	Temperature	±0.5°C up to 60°C, ±1°C up to 105.0°C ±1.0°F up to 140°F, ±2°F up to 221°F	±0.5°C up to 60°C, ±1°C up to 105.0°C ±1.0°F up to 140°F, ±2°F up to 221°F	±0.5°C up to 60°C, ±1°C up to 105.0°C ±1.0°F up to 140°F, ±2°F up to 221°F
Electrode Supplied		HI 1296D with DIN conn. and 1 m cable	HI 1297D with DIN conn. and 1 m cable	HI 1297D with DIN conn. and 1 m cable
pH Calibration		Automatic 1 or 2 points with 2 sets of standardized buffers (4.01, 7.01, 10.01 or 4.01, 6.86, 9.18)		
Temperature Compensation		Automatic		
Battery Type / Life		3 x 1.5 V AA / approximately 1500 hours of continuous use		
Environment		0 to 50°C (32 to 122°F); RH 100%		

- pH, ORP and T° sensor all in one single probe
- Stability indicator
- Amplified Probes
- Electrode condition check
- Compact casing
- Battery life % illuminated at startup

HI 991001 is supplied with HI 1296D probe, HI 991002-03 are supplied with HI 1297D pH/ORP/temperature electrode, 3 x 1.5 V AA batteries & carrying case.

Waterproof pH/T° Testers

When Hanna Instruments introduced its first version of the pHep® (pH electronic paper) in 1986, it immediately revolutionized the standards in pH measurement. The pHep®'s ease-of-use in combination with its affordability made it possible to measure pH on the spot, accurately and inexpensively throughout a variety of industries. Since its introduction, over 1 million pHep®s have gone to satisfied customers around the world. We at Hanna have always valued the comments and suggestions coming from our customers. For this new series, we have included all of the features you have asked for and more!

		HI 98127 (pHep 4)	HI 98128 (pHep 5)
Range	pH	0.0 to 14.0	0.00 to 14.00
	T°	0.0 to 60.0°C or 32.0 to 140.0°F	0.0 to 60.0°C or 32.0 to 140.0°F
Resolution	pH	0.1	0.01
	T°	0.1°C or 0.1°F	0.1°C or 0.1°F
Accuracy (@20°C/68°F)	pH	±0.1	±0.05
	T°	±0.5°C or ±1°F	±0.5°C or ±1°F
Calibration		Automatic 1 or 2 points	Automatic 1 or 2 points
Temperature Compensation		Automatic	Automatic
Battery Type / Life		4 x 1.5 V with BEPS / approximately 250 hours of continuous use; auto shut-off after 8 minutes of non-use	4 x 1.5 V with BEPS / approximately 250 hours of continuous use; auto shut-off after 8 minutes of non-use
Environment		0 to 50°C (32 to 122°F); RH 100%	0 to 50°C (32 to 122°F); RH 100%

- Floating, waterproof casing
- Automatic calibration
- Automatic shut-off
- Stability indicator

HI 98127 (pHep®4) & HI 98128 (pHep®5) are supplied with electrode removal tool and batteries.

Replaceable
pH Sensor



Cartridge tool

Battery Level
Indicator



Dual-Level
LCD



Logging Waterproof pH/ORP/T° Meters

HI 98140 and HI 98150 are two of the most innovative portable pH meters ever offered. These instruments feature GLP (Good Laboratory Practice) capabilities and use the latest in electrode technology - Hanna's new intelligent electrodes.

These pH electrodes incorporate a chip which memorizes the calibration date and data performed with a specific instrument. When the "intelligent" electrode is attached to the meter again, it is automatically recognized. This new technology allows the operator to optimize time and efficiency with unsurpassed safety. It avoids erroneous measurements taken in the event the pH electrode is substituted after calibration.

In addition, these advanced meters also allow the operator to set a calibration maximum validity time and will automatically alert the user when recalibration is necessary. Access to the GLP data is password protected for added safety.

		HI 98140	HI 98150
Range	pH	-4.00 to 19.99	-4.00 to 19.99
	mV	-	±400.0 mV (ISE); ±2000 mV (ORP)
	°C	-20.0 to 120.0	-20.0 to 120.0
Resolution	pH	0.01	0.01
	mV	-	0.1 mV (-400 to +400 mV); 1 mV (outside)
	°C	0.1 (-10 to 120)	0.1 (-10 to 120)
Accuracy (@20°C/68°F)	pH	±0.01	±0.01
	mV	-	±0.2 mV (-400 to +400 mV); ±2 mV (outside)
	°C	±0.4 (0 to 70); ±1 (outside)	±0.4 (0 to 70); ±1 (outside)
mV Calibration		-	Automatic 3 points at 0, 350, 1900 mV
pH Calibration		Automatic 1 or 2 points with 5 memorized standard buffers	
Temperature Compensation		Automatic or manual from -20 to 120°C (15 to 248°F)	
pH Electrode		HI 1618D intelligent electrode with temperature sensor, DIN, 1 m (3.3') cable (included)	
Computer Interface		RS-232	
Logging Function		Up to 500 measurements with log-on-demand	
Power Supply		4 x 1.5 V AA / 300 hours of continuous use (without backlight) or 12 VDC adapter (included)	
Environment		0 to 50°C (32 to 122°F); RH 100%	

- Calibration alert
- "Intelligent" electrode
- Combined pH & T° sensor
- GLP (Good Laboratory Practice)



Dual level
backlit LCD

HI 98140 & HI 98150 are supplied with HI 1618D intelligent electrode, 12 VDC adapter, pH 4.01/7.01 buffer solutions, cleaning solution, batteries and hard carrying case.

Printing & Logging pH/ORP/T° Meters

The top-of-the-range HI 98230 and HI 98240 portable pH meters offer all the features of HI 98140 and HI 98150 with the advantage of having a built-in plain paper printer.

The HI 98230 and HI 98240 allow the user to print a permanent undisputable record of the measurement data at any time for record keeping, troubleshooting or compliance purposes. The printing interval is user selectable from 1 to 180 minutes. When the logging mode is activated the instrument stores the measurement data which can be printed immediately or at a later date. The stored data (up to 500 measurements) can also be downloaded to a PC with a standard RS-232 serial connection and Hanna's infrared adapter and Windows® compatible software.

		HI 98230	HI 98240
Range	pH	-4.00 to 19.99	-4.00 to 19.99
	mV	-	±400.0 mV (ISE); ±2000 mV (ORP)
	°C	-10.0 to 120.0	-10.0 to 120.0
Resolution	pH	0.01	0.01
	mV	-	0.1 mV (-400 to +400 mV); 1 mV (outside)
	°C	0.1	0.1
Accuracy (@20°C/68°F)	pH	±0.01	±0.01
	mV	-	±0.2 mV (-400 to +400 mV); ±2 mV (outside)
	°C	±0.5 (0 to 70); ±1 (outside)	±0.5 (0 to 70); ±1 (outside)
mV Calibration		-	Automatic 3 points at 0, 350, 1900 mV
pH Calibration		Automatic 1 or 2 points with 5 memorized standard buffers	
Temperature Compensation		Automatic or manual from -10 to 120°C (15 to 248°F)	
pH Electrode		HI 1618D intelligent electrode with temperature sensor, DIN, 1 m (3.3') cable (included)	
Computer Interface		HI 9200 (optional infrared interface) connected to serial RS-232 port	
Printing/Logging Interval		Selectable from 1, 2, 5, 10, 15, 30, 60, 120, and 180 minutes (500 measurements)	
Power Supply		4 x 1.5 V AA / 300 hours of continuous use (without backlight) or 12 VDC adapter (included)	
Environment		0 to 50°C (32 to 122°F)	

- Printing & logging
- Computer interface
- Calibration alert
- "Intelligent" electrode
- Combined pH & T° sensor
- GLP (Good Laboratory Practice)



Dual level
backlit LCD

HI 98230 & HI 98240 are supplied with HI 1618D intelligent electrode, 12 VDC adapter, pH 4.01/7.01 buffer solutions, cleaning solution, 5 rolls of printer paper, batteries and hard carrying case.



Waterproof Dissolved Oxygen Meters



HI 9143 and HI 9145 were designed for outdoor applications and are indispensable in environmental research. Simple on-site calibration requires no chemical solutions. Just expose the probe to air and press the CAL button. In a few minutes, the meter is calibrated and ready to use. The new and improved models measure D.O. from 0 to 300% and 45 mg/l so that even oxygenated water can be checked with these portable meters.

The supplied probe comes with a 4 meter cable. Probes cables are available in length of 4, 10, 20 and 30 meters. Sensing membranes are pre-assembled meaning no time consuming assembly. For field convenience, these meters can operate from the power of a 12 VDC power adapter or with 1.5 V AA batteries.

- Calibrates in seconds
- Pre-assembled membranes
- Up to 30 m probe cable
- Supplied complete with accessories and carrying case

HI 9143 & HI 9145 are supplied with HI 76407/4 D.O. probe, 2 spare membranes, HI 70415 electrolyte solution, 4 x 1.5 V AA batteries and hard carrying case.

		HI 9143	HI 9145
Range	mg/l O ₂	0.00 to 45.00	0.00 to 45.00
	% Sat. O ₂	0.0 to 300.0	0.0 to 300.0
	°C	0.0 to 50.0	0.0 to 50.0
Resolution	mg/l O ₂	0.01	0.01
	% Sat. O ₂	0.1	0.1
	°C	0.1	0.1
Accuracy (@20°C/68°F)	mg/l O ₂	±1.5% F.S.	±1.5% F.S.
	% Sat. O ₂	±1.5% F.S.	±1.5% F.S.
	°C	±0.5	±0.5
Temperature Compensation		Automatic from 0 to 50°C (32 to 122°F)	
Altitude Compensation		0 to 4 kms, 1 km resolution	-
Salinity Compensation		0 to 40 g/l, 1 g/l resolution	-
Probe		HI 76407/4 polarographic D.O. probe with 4 m (13') cable (included)	
Power Supply		4 x 1.5 V AA batteries / Approximately 200 hours of continuous use Auto shut-off after 4 hours. Power plug for 12 VDC supply	
Environment		0 to 50°C (32 to 122°F); RH 100%	

Printing & Logging Dissolved Oxygen Meters



HI 9141 is the world's first portable printing D.O. meter. Data can be recorded at user selectable intervals of 1, 2, 5, 10, 15, 30, 60, 120 and 180 minutes. In addition to the automatic calibration feature, the meter automatically compensates for two very important parameters: altitude from 0 to 4 kms and salinity from 0 to 40 g/l. The low-power printer uses regular paper that is easily sourced and will not fade over time.

HI 91410 combines all of the comprehensive printing functions of the HI 9141 with the capability to log measurements. In addition to supplying the user with instant print-outs of D.O., HI 91410 also provides datalogging facilities that will store up to 8000 readings. These measurements can be scrolled through at any time, printed or even transferred to a computer.

- Plain paper printer
- Selectable printing & logging intervals
- Store up to 8000 readings
- Data scroll
- PC connection

HI 9141 & HI 91410 are supplied with HI 76407/4 D.O. probe, 2 spare membranes, HI 70415 electrolyte solution, 5 paper rolls, 4 x 1.5 V AA batteries and hard carrying case.

		HI 9141	HI 91410
Range	mg/l O ₂	0.00 to 45.00	0.00 to 45.00
	% Sat. O ₂	0.0 to 300.0	0.0 to 300.0
	°C	0.0 to 50.0	0.0 to 50.0
Resolution	mg/l O ₂	0.01	0.01
	% Sat. O ₂	0.1	0.1
	°C	0.1	0.1
Accuracy (@20°C/68°F)	mg/l O ₂	±1.5% F.S.	±1.5% F.S.
	% Sat. O ₂	±1.5% F.S.	±1.5% F.S.
	°C	±0.5	±0.5
Temperature Compensation		Automatic from 0 to 50°C (32 to 122°F)	
Altitude Compensation		0 to 4 kms 1 km resolution	-
Salinity Compensation		0 to 40 g/l, 1 g/l resolution	-
Probe		HI 76407/4 polarographic D.O. probe with 4 m (13') cable (included)	
Printer		Low power impact type-belt, 14 characters per line using 38 mm plain paper (HI 710034)	
Printing Intervals		Selectable from 1, 2, 5, 10, 15, 30, 60, 120 and 180 minutes	
Logging Intervals		Selectable from 1, 2, 5, 10, 15, 30, 60, 120 and 180 minutes	
Power Supply		4 x 1.5 V AA batteries / Approximately 200 hours of continuous use. Auto shut-off after 4 hours. Power plug for 12 VDC supply	
Environment		0 to 50°C (32 to 122°F); RH 100%	

Log-on-demand Turbidity Meters

In natural water, turbidity is an excellent gauge of general water quality and Total Suspended Solids (TSS). Turbidity is the condition resulting from suspended solids in the water, such as silts, clays, industrial wastes, sewage and plankton. These particles absorb heat in the sunlight, thus raising water temperature, which in turn lowers dissolved oxygen levels. They also prevent sunlight from reaching plants below the surface which decreases the rate of photosynthesis, so less oxygen is produced by plants. It has been found that there is a strong correlation between the turbidity level and the BOD value of water. In addition, turbidity may harm fish and their larvae. It is caused by soil erosion, excess nutrients, various wastes and pollutants, and the action of bottom feeding organisms which stir sediments up into the water.



Hanna's HI 93703 is designed to provide you with a simple yet accurate way to test turbidity on-site. This meter has two operating ranges: 0.00 to 50.00 FTUs, and 50 to 1000 FTUs that can accommodate the most turbid condition you may encounter. The HI 93703 is easy to calibrate (with 2 point calibration) using AMCO-EPA standards. The supplied calibration solutions of AMCO-EPA-1 at 0 FTU, 10 FTU and 20 FTU are preferred over the formazine standard, because they are more stable, nontoxic, can be reused and last more than a year. The meters can also be used with formazine standards.

The HI 93703-11 enhanced version has 3 point calibration and comes with a real-time clock and internal logging for up to 200 measurements. Collected data can be downloaded to your management system using the Windows® compatible HI 92000 software.

Both versions meet the requirements of GLP (Good Laboratory Practices) protocols for last calibration data storage.

Wide Range

Both models guarantee accurate measurement with low and high turbidity levels.

Good Laboratory Practice

With the press of a button, the last calibration information is retrieved from memory and displayed to assure accurate measurements.



HI 93703-C Complete kit

Logging Capability

This powerful feature allows you to store information from up to 200 samples including the time and date of each measurement (HI 93703-11 only).

	HI 93703	HI 93703-11
Range	0.00 to 50.00 FTU* / 50 to 1000 FTU*	
Resolution	0.01 FTU / 1 FTU	
Accuracy	±0.5 FTU* or ±5% of reading whichever is greater	
Calibration	2 points (0 FTU & 10 FTU)	3 points (0 FTU, 10 FTU & 500 FTU)
Light Source	High Emission Infrared LED	
Light Life	Life of the instrument	
Light Detector	Silicon Photocell	
Logging Capabilities	-	200 measurements
Computer Interface	-	RS-232, with optional HI 92000 software
Real Time Clock	-	Yes
Battery Type / Life	4 x 1.5 V AA batteries/ 60 hours of continuous use or 900 measurements Auto shut-off after 5 minutes of non-use	
Environment	0 to 50°C (32 to 122°F); RH 95%	

HI 93703 & HI 93703-11 are supplied with measurement cuvetts and caps, 4 x 1.5 V AA batteries.

* 1 FTU = 1 NTU

Waterproof *Multirange* & **Auto-ranging** Conductivity/TDS/NaCl/T° Meters

The HI 9835 combines the most important parameters you need for measuring conductivity. Now you can sample Electro-Conductivity (EC), Total Dissolved Solids (TDS), Sodium Chloride (NaCl) and temperature all at once. Hanna's probe design innovation uses 4 rings enhanced with platinum for greater stability while increasing the range of measurable concentrations and temperature. In addition, you can also select from a range of TDS factors of 0.40 to 0.80 and a range of temperature coefficients of 0.00 to 6.00% for greater consistency and reproducibility. For extended time studies, this meter can be connected to the available 12 VDC power supply.



- Auto-Ranging
- Adjustable TDS factor
- Adjustable T° coefficient
- Dual level LCD
- 4-ring technology
- Supplied complete with accessories and carrying case

HI 9835 is supplied complete with HI 76309 4-ring conductivity probe with 1 m (3.3') screened cable, 4 x 1.5 V AA batteries and hard carrying case.

HI 9835	EC	TDS	NaCl	T°
Range (auto-ranging)	0.00 to 29.99 $\mu\text{S}/\text{cm}$ 30.0 to 299.9 $\mu\text{S}/\text{cm}$ 300 to 2999 $\mu\text{S}/\text{cm}$ 3.00 to 29.99 mS/cm 30.0 to 200.0 mS/cm Up to 500.0 mS/cm	0.00 to 14.99 ppm 15.0 to 149.9 ppm 150 to 1499 ppm 1.50 to 14.99 ppt 15.0 to 100.0 ppt Up to 400.0 ppt	0.0 to 400.0%	0.0 to 60.0°C
Resolution	0.01 $\mu\text{S}/\text{cm}$ (from 0.00 to 29.99 $\mu\text{S}/\text{cm}$) 0.1 $\mu\text{S}/\text{cm}$ (from 30.0 to 299.9 $\mu\text{S}/\text{cm}$) 1 $\mu\text{S}/\text{cm}$ (from 300 to 2999 $\mu\text{S}/\text{cm}$) 0.01 mS/cm (from 3.00 to 29.99 mS/cm) 0.1 mS/cm (over 30.0 mS/cm)	0.01 ppm (from 0.00 to 14.99 ppm) 0.1 ppm (from 15.0 to 149.9 ppm) 1 ppm (from 150 to 1499 ppm) 0.01 ppt (from 1.50 to 14.99 ppt) 0.1 ppt (over 15.0 ppt)	0.1%	0.1°C
Accuracy	$\pm 1\%$ of reading \pm (0.05 $\mu\text{S}/\text{cm}$ or 1 digit, whichever is greater)	$\pm 1\%$ of reading \pm (0.03 ppm or 1 digit, whichever is greater)	$\pm 1\%$ of reading	$\pm 0.4^\circ\text{C}$
EC Calibration		1 point with 6 memorized buffers		
NaCl Calibration		1 point with HI 7037 buffer (optional)		
Temperature Calibration		2 points at 0 and 50°C (plus $\pm 1^\circ\text{C}$ adjustment)		
Temperature Compensation		Automatic or manual from 0 to 60°C (can be disabled to measure actual conductivity)		
Temperature Coefficient		0.00 to 6.00%/°C (for EC and TDS only) Default value is 1.90%/°C		
TDS Factor		0.40 to 0.80 (default value is 0.50)		
Probe		HI 76309 4-ring probe, K=1 nominal and built-in temperature sensor (included)		
Auto shut-off		After 5 minutes (can be disabled)		
Power Supply		4 x 1.5 V AA alkaline type batteries (included), or 12 VDC adapter		
Environment		0 to 50°C; 100% RH		

Waterproof *Multirange* Conductivity/TDS Meters

HI 9033 and HI 9034 have been proven time and again to hold up under extended use in wet, humid, dusty and muddy conditions. HI 9033 utilizes a single probe to perform all conductivity readings in four ranges.

HI 9034 measures Total Dissolved Solids (TDS) in three ranges to offer the highest accuracy when performing measurements in diverse applications. All three ranges can be activated at the touch of a button without having to change the conductivity probe.

Both meters perform measurements with ATC (Automatic Temperature Compensation) which adjusts for the effects of temperature. The HI 76302W probe is available with up to 30 meters of cable length.



- 4-ring technology
- Measure all ranges
- Up to 30 meters cable
- Supplied complete with accessories and carrying case

HI 9033 & HI 9034 are supplied with HI 76302W interchangeable probe, calibration screwdriver, 9 V battery and hard carrying case.

	HI 9033	HI 9034
Ranges	0.0 to 199.9 $\mu\text{S}/\text{cm}$; 0 to 1999 $\mu\text{S}/\text{cm}$; 0.00 to 19.99 mS/cm ; 0.0 to 199.9 mS/cm	00.0 to 199.9 mg/l ; 0 to 1999 mg/l ; 0.00 to 19.99 g/l
Resolution	0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 0.01 mS/cm ; 0.1 mS/cm	0.1 mg/l ; 1 mg/l ; 0.01 g/l
Accuracy (@20°C/68°F)		$\pm 1\%$ F.S. (excluding probe error)
Calibration		Manual 1 point with trimmer
Temperature Compensation		Automatic from 10 to 50°C with B of 2% per °C
Probe		HI 76302W with ATC, 1 m cable (included)
Environment		From 0 to 50°C (32 to 122°F); RH 100%
Battery Type / Life		1 x 9 V / approximately 100 hours of continuous use

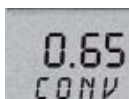
Waterproof pH/EC/TDS/T° Testers

The original DiST® (Dissolved Solids Tester) was first introduced in 1986 by Hanna Instruments. Since then, the measurement of Conductivity and Total Dissolved Solids has never been easier. The DiST's ease-of-use in combination with its affordability made it the standard in EC and TDS measurement. Hanna Instruments continues the tradition of innovation with the new DiST®5 and DiST®6. For this new series, we have included all the features you have asked for and more! This 3-in-1 tester is unmatched in EC/TDS/Temperature measurement!

		HI 98311 (DiST 5)	HI 98312 (DiST 6)
Ranges	EC	0 to 3999 µS/cm	0.00 to 20.00 mS/cm
	TDS	0 to 2000 ppm	0.00 to 10.00 ppt
Resolution	EC	1 µS/cm	0.01 mS/cm
	TDS	1 ppm	0.01 ppt
Accuracy (@20°C/68°F)	EC		±2% F.S.
	TDS		±2% F.S.
Temperature Compensation	EC	0.0 to 60.0°C or 32.0 to 140.0°F	0.0 to 60.0°C or 32.0 to 140.0°F
	TDS	0.1 °C or 0.1°F	0.1 °C or 0.1°F
EC/TDS Calibration		Automatic 1 point at 1413 µS/cm	Automatic 1 point at 12.88 mS/cm
EC/TDS Conversion Factor		Adjustable from 0.45 to 1.00	
Environment		Automatic, BETA B is adjustable from 0.0 to 2.4%/°C From 0 to 50°C (32 to 122°F); RH 100%	
Battery Type / Life		4 x 1.5 V with BEPS (Battery Error Prevention System) / approx. 100 hours of continuous use; auto shut-off after 8 minutes of non-use	



Battery Life
Indicator



User Adjustable
TDS Ratio



Adjustable
Temperature
Coefficient Factor

Graphite conductivity electrode provides greater accuracy because it cannot be contaminated by salt deposits in the solution. The sturdy, snap-in connector means there are no pins to bend or break.



HI 98311 (DiST®5) & HI 98312 (DiST®6) are supplied complete with protective cap, 4 x 1.5 V batteries and electrode removal tool.



Printing & Logging Conductivity/T° Meters

HI 933300 and HI 933301 are powerful and versatile conductivity meters designed to bring lab grade performance and accuracy anywhere in the field. They allow the user to print a permanent indisputable record of the measurement data at any time for record keeping, trouble shooting or compliance purposes.

The printing interval is user selectable from 1 to 180 minutes. When the logging mode is activated HI 933301 records the conductivity and the temperature measurements that can be printed immediately or at a later date. The stored data (up to 16,000 measurements) can also be downloaded to a PC through the standard RS-232 serial connection and Hanna's infrared adapter using the Windows® compatible software.

	HI 933300	HI 933301
Ranges	0.0 to 150.0 µS/cm; 150 to 1500 µS/cm; 1.50 to 15.00 mS/cm; 15.0 to 199.9 mS/cm; 0.0 to 60.0°C	
Resolution	0.1 µS/cm; 1 µS/cm; 0.01 mS/cm; 0.1 mS/cm; 0.1°C	
Accuracy (@20°C/68°F)	±1% F.S.; ±0.5°C (excluding probe error)	
Calibration	Automatic 1, 2, 3, 4 or 5 points at 0, 84, 1413, 12880, 80000 µS/cm	
Temperature Compensation	Automatic from 0 to 60°C (32 to 140°F) with an adjustable B from 0.0 to 3.0% per °C	
Probe	HI 76302W with ATC 1 m (3.3') screened cable (included)	
Printer	Low-power impact type-belt, 14 characters per line using 38 mm plain paper (HI 710034)	
Printing Intervals	Selectable from 1, 2, 5, 10, 15, 30, 60, 120 and 180 minutes	
Logging Intervals	Selectable between 1, 2, 5, 10, 15, 30, 60, 120 and 180 minutes	-
Interface	RS-232, with optional HI 9200 transmitter	-
Battery Type / Life	4 x 1.5 V AA batteries / approximately 500 hours with 60' printing interval	-
Environment	Power socket for 12 VDC 0 to 50°C (32 to 122°F); RH 95%	

- Plain paper printer
- PC compatible
- 4-ring technology
- Dual level LCD
- Supplied complete



HI 933300 & HI 933301 are supplied complete with HI 76302W conductivity probe, 5 paper rolls, batteries and hard carrying case.

Waterproof Multiparameters

pH/EC/TDS/T° Meters

Welcome the new generation of unparalleled versatility and simplicity in pH, EC, and TDS measurements. The HI 991300 and HI 991301 offer you the combination of pH, electro-conductivity, total dissolved solids and temperature measurements. The multi-functional probe includes pH, EC/TDS and temperature in one convenient, rugged handle.

Other user selectable features include different TDS factors from 0.45 to 1.00, and a range of temperature coefficients (B) from 0.0 to 2.4% for greater consistency and reproducibility. To ensure against interference from transient electrical noise, a solid-state amplifier is integrated into the probe.

- 4 meters in 1
- 2 button operation
- Adjustable TDS factor
- Adjustable T° coefficient
- Dual level LCD



Fits in the palm
of your hand!

HI 991300 & HI 991301 are supplied with HI 1288 pH/EC/TDS/°C probe, batteries, and hard carrying case.

		HI 991300	HI 991301
Range	pH	0.00 to 14.00	0.00 to 14.00
	EC	0 to 3999 µS/cm	0.00 to 19.99 mS/cm
Resolution	TDS	0 to 2000 ppm	0.00 to 10.00 ppt
	Temperature	0.0 to 60.0°C or 32 to 140°F	0.0 to 60.0°C or 32 to 140°F
Accuracy (@20°C/68°F)	pH	±0.01	±0.01
	EC	±2% F.S.	±2% F.S.
EC/TDS Ratios	TDS	±2% F.S.	±2% F.S.
	Temperature	±0.5°C or ±1.0°F	±0.5°C or ±1.0°F
pH Calibration	Selectable from 0.45, 0.50 (default), 0.55, 0.60, 0.65, 0.68, 0.70, 0.75, 1.00 ppm		
	Automatic 1 or 2 points with 2 sets of memorized standard buffers (pH 4.01, 7.01, 10.01 or 4.01, 6.86, 9.18)		
EC/TDS Calibration	Automatic 1 point at 1382 ppm (conv.=0.5; 1500 ppm (conv.=0.7); 1413 µS/cm (others))		Automatic 1 point at 6.44 ppt (conv.=0.5); 9.02 ppt (conv.=0.7); 12880 µS/cm (others)
	Automatic from 0 to 60°C		
Temperature Compensation	pH	Automatic from 0 to 60°C with a selectable B of 0.0, 1.8, 1.9 (default), 2.0, 2.1, 2.2, 2.3, 2.4% per °C	
	EC/TDS	Automatic from 0 to 60°C	
Probe Battery Type / Life Environment	HI 1288 pH/EC/TDS probe with built-in temperature sensor, DIN connector and 1 m (3.3') cable (included)		
	4 x 1.5 V AAA / approximately 500 hours of continuous use 0 to 50°C (32 to 122 °F); RH 100%		

Waterproof Multiparameters

pH/EC/TDS/T° Testers

The NEW HI 98129 and HI 98130 Combo waterproof testers are designed for high accuracy pH, EC/TDS and temperature measurements. No more switching between meters, the Hanna Instruments' Combo does it all. The EC/TDS conversion factor is user selectable as well as the temperature compensation coefficient B. The Combo is waterproof, floating and has a large easy-to-read dual-level LCD and Automatic shut-off. The Combo has a replaceable pH electrode cartridge as well as an EC/TDS graphite electrode which resists contamination by salts and other substances that come in contact with the electrode. Fast, efficient, accurate and portable, the Combo pH, EC/TDS and temperature tester meets the requirements of multi-routine measurements.

- 4 meters in 1
- Floating, waterproof casing
- Automatic calibration
- Automatic shut-off
- Stability indicator
- Adjustable TDS factor
- Adjustable T° coefficient



Battery Life Indicator

HI 98129 & HI 98130 are supplied with electrode removal tool and 4 x 1.5 V batteries and instructions.

		HI 98129	HI 98130
Range	pH	0.00 to 14.00	0.00 to 14.00
	EC	0 to 3999 µS/cm	0.00 to 19.99 mS/cm
Resolution	TDS	0 to 2000 ppm	0.00 to 10.00 ppt
	Temperature	0.0 to 60.0°C or 32 to 140°F	0.0 to 60.0°C or 32 to 140°F
Accuracy (@20°C/68°F)	pH	±0.01	±0.01
	EC	±2% F.S.	±2% F.S.
EC/TDS Ratios	TDS	±2% F.S.	±2% F.S.
	Temperature	±0.5°C or ±1.0°F	±0.5°C or ±1.0°F
pH Calibration	Selectable from 0.45, 0.50 (default), 0.55, 0.60, 0.65, 0.68, 0.70, 0.75, 1.00 ppm		
	Automatic 1 or 2 points with 2 sets of memorized standard buffers (pH 4.01, 7.01, 10.01 or 4.01, 6.86, 9.18)		
EC/TDS Calibration	Automatic 1 point at 1382 ppm (conv.=0.5; 1500 ppm (conv.=0.7); 1413 µS/cm (others))		Automatic 1 point at 6.44 ppt (conv.=0.5); 9.02 ppt (conv.=0.7); 12880 µS/cm (others)
	Automatic from 0 to 60°C		
Temperature Compensation	pH	Automatic from 0 to 60°C with a selectable B of 0.0, 1.8, 1.9 (default), 2.0, 2.1, 2.2, 2.3, 2.4% per °C	
	EC/TDS	Automatic from 0 to 60°C	
Electrode Battery Type / Life Environment	HI 73127 pH electrode (included)		
	4 x 1.5 V with BEPS (Battery Error Prevention System) / approximately 100 hours of continuous use 0 to 50°C (32 to 122 °F); RH 100%		

Economical pH/EC/TDS Meters

HI 9810, HI 9811 and HI 9812 are educational oriented portable meters for field measurement of pH, conductivity and TDS. The accuracy of your conductivity and TDS measurements will not be in question as these meters are equipped with Automatic Temperature Compensation and an exclusive Battery Error Prevention System (BEPS) that will alert the user when low batteries could affect the readings.

These portable meters use the newly designed 4-in-1 replaceable HI 1285 probe. Probe changes are no longer required when switching your measured parameter between pH, conductivity and TDS.

The very economical price of this meter makes it particularly attractive.

		HI 9810	HI 9811	HI 9812
Range	pH	0.00 to 14.00 pH	0.0 to 14.0 pH	0.0 to 14.0 pH
	EC	0 to 6000 $\mu\text{S}/\text{cm}$	0.0 to 6.00 mS/cm	0 to 1990 $\mu\text{S}/\text{cm}$
	TDS	0 to 3000 mg/l (ppm)	0.00 to 3.00 g/l (ppt)	0 to 1990 mg/l (ppm)
Resolution	pH	0.10 pH	0.1 pH	0.1 pH
	EC	10 $\mu\text{S}/\text{cm}$	0.01 mS/cm	10 $\mu\text{S}/\text{cm}$
	TDS	10 mg/l	0.01 g/l	10 mg/l
Accuracy (@20°C/68°F)	pH	± 0.20 pH	± 0.2 pH	± 0.2 pH
	EC	$\pm 2\%$ F.S.	$\pm 2\%$ F.S.	$\pm 0.2\%$ F.S.
	TDS	$\pm 2\%$ F.S.	$\pm 2\%$ F.S.	$\pm 0.2\%$ F.S.
EC/TDS Conversion Factor			0.5 $\text{mg}/\text{l} = 1 \mu\text{S}/\text{cm}$	
Calibration		Manual 1 point through trimmer for all parameters		
Temperature Compensation		Automatic from 0 to 50°C (32 to 122°F) with β of 2% per °C (conductivity/TDS only)		
Probe		HI 1285 pH/conductivity/TDS/°C probe and 1 m (3.3') cable (included)		
Battery Type / Life		1 x 9 V / approximately 150 hours of continuous use		
Environment		0 to 50°C (32 to 122°F); RH 95%		

- pH, EC and TDS sensor all in one single probe
- Compact casing
- Automatic Temperature Compensation
- Simple to use

HI 9810, HI 9811, HI 9812 are supplied with HI 1285 probe, pH & EC buffer solutions and 9 V battery.

Economical Multiparameter pH/EC/ORP/T° Tester

Water Test is the smallest portable water testing laboratory in the world! It provides quick and reliable measurement of the four most important variables in water analysis, that is, pH, ORP, conductivity, and temperature.

The lightweight and compact package makes it perfect for use in the field. Superior in design and construction, Water Test is made of rugged VALOX® material which provides excellent protection. Water Test is engineered to such a simplicity that even non-technical personnel can use it. Fill the base of Water Test with the sample to be measured, press "RANGE" to select the mode and then simply read your measurement!

Water Test	pH	ORP	EC	T°
Range	0.0 to 14.0	-1000 to 1000mV	0 to 1999 $\mu\text{S}/\text{cm}$	0.0 to 60.0°C
Resolution	0.1	1 mV	1 $\mu\text{S}/\text{cm}$	0.1°C
Accuracy (@20°C/68°F)	± 0.2	± 5 mV	$\pm 2\%$ Full Scale	$\pm 1^\circ\text{C}$
Typical EMC Deviation	± 0.4	± 2 mV	$\pm 2\%$ Full Scale	$\pm 1^\circ\text{C}$
Calibration	Manual 2 points	N/A	Manual 1 point	N/A
Battery Type / Life		3 x 1.5 V / approximately 200 hours of continuous use		
Environment		0 to 50°C (32 to 122°F); RH 95%		

- 4 instruments in 1
- Long Battery Life Making the Unit excellent for Field Operations
- Excellent Accuracy Across All Ranges



- Lightweight and Highly Portable
- Obtain Consistent Accuracy Through 3 Calibration Trimmers
- Easy to Operate and Maintain

HI 98204 (Water Test) is supplied with measuring compartment and 3 x 1.5 V batteries.

Easy to use Colorimeters

As simple as 1-2-3!

The Hanna line of colorimeters was developed with simplicity of use in mind. All you need to do to operate these meters is zero your sample, dissolve a readily soluble powder or add a few drops of a reagent in the cuvet and take a reading.



Parameter	Code	Range	Increment	Method	Accuracy
Aluminum	HI 93712	0.00 to 1.00 mg/l	0.01 mg/l	Aluminon	±0.02 mg/l ±4% of reading
Ammonia, High Range	HI 93733	0.0 to 50.0 mg/l	0.1 mg/l	Nessler	±0.5 mg/l ±5% of reading
Ammonia, Medium Range	HI 93715	0.00 to 9.99 mg/l	0.01 mg/l	Nessler	±0.5 mg/l ±5% of reading
Ammonia, Low Range	HI 93700	0.00 to 3.00 mg/l	0.01 mg/l	Nessler	±0.04 mg/l ±4% of reading
Bromine	HI 93716	0.00 to 8.00 mg/l	0.01 mg/l	DPD	±0.08 mg/l ±3% of reading
Chlorine, Free, LR	HI 93701	0.00 to 2.50 mg/l	0.01 mg/l	DPD	±0.03 mg/l ±3% of reading
Chlorine, Free and Total, HR	HI 93734	0.00 to 9.99 mg/l	0.01 mg/l	DPD	±0.03 mg/l ±3% of reading
Chlorine Dioxide	HI 93738	0.00 to 2.00 mg/l	0.01 mg/l	Chlorophenol Red	±0.1 mg/l ±5% of reading
Chromium VI, High Range	HI 93723	0 to 1000 µg/l	1 µg/l	Diphenylcarbohydrazide	±5 µg/l ±4% of reading
Chromium VI, Low Range	HI 93749	0 to 300 µg/l	1 µg/l	Diphenylcarbohydrazide	±1 µg/l ±4% of reading
Color	HI 93727	0 to 500 PCU	10 PCU	Chloroplatinate	±10 PCU ±5% of reading
Copper, High Range	HI 93702	0.00 to 5.00 mg/l	0.01 mg/l	Bicinchoninate	±0.02 mg/l ±4% of reading
Copper, Low Range	HI 93747	0 to 990 µg/l	1 µg/l	Bicinchoninate	±10 µg/l ±5% of reading
Cyanide	HI 93714	0.000 to 0.200 mg/l	0.001 mg/l	Pyridine-Pyrazalone	±0.005 mg/l ±3% of reading
Cyanuric Acid	HI 93722	0 to 80 mg/l	1 mg/l	Turbidimetric	±1 mg/l ±15% of reading
Fluoride, High Range	HI 93739	0.0 to 20.0 mg/l	0.1 mg/l	SPADNS	±0.5 ppm ±3% of reading
Fluoride, Low Range	HI 93729	0.00 to 2.00 mg/l	0.01 mg/l	SPADNS	±5% of reading
Hardness, Ca	HI 93720	0.00 to 2.70 mg/l	0.01 mg/l	Calmagite	±0.11 mg/l ±5% of reading
Hardness, Mg	HI 93719	0.00 to 2.00 mg/l	0.01 mg/l	Colorimetric	±0.11 mg/l ±5% of reading
Hardness, Total	HI 93735	0 to 250 mg/l	1 / 5 mg/l	EPA 130.1	±5 mg/l ±4% of reading
		200 to 500 mg/l	1 / 5 mg/l	EPA 130.1	±7 mg/l ±3% of reading
		400 to 750 mg/l	1 / 5 mg/l	EPA 130.1	±10 mg/l ±2% of reading
Hydrazine	HI 93704	0 to 400 µg/l	1 mg/l	p-Dimethylaminobenzaldehyde	±3% full scale
Iodine	HI 93718	0.0 to 12.5 mg/l	0.1 mg/l	DPD	±0.1 mg/l ±5% of reading
Iron, High Range	HI 93721	0.00 to 5.00 mg/l	0.01 mg/l	Phenantroline	±0.04 mg/l ±2% of reading
Iron, Low Range	HI 93746	0 to 400 µg/l	1 µg/l	TPTZ	±10 µg/l ±8% of reading
Manganese, High Range	HI 93709	0.0 to 20.0 mg/l	0.1 mg/l	Periodate Oxidation	±0.2 mg/l ±4% of reading
Manganese, Low Range	HI 93748	0 to 300 µg/l	1 µg/l	PAN	±2 µg/l ±3% of reading
Molybdenum	HI 93730	0.0 to 40.0 mg/l	0.1 mg/l	Mercaptoacetic Acid	±0.3 mg/l ±5% of reading
Nickel, HR	HI 93726	0.00 to 7.00 g/l	0.01 g/l	Photometric	±4% of reading
Nickel, LR	HI 93740	0.000 to 1.000 mg/l	0.001 mg/l	PAN	±0.010 mg/l ±5% of reading
Nitrate	HI 93728	0.0 to 30.0 mg/l	0.1 mg/l	Cadmium Reduction	±0.5 mg/l ±10% of reading
Nitrite, High Range	HI 93708	0 to 150 mg/l	1 mg/l	Ferrous Sulfate	±4 mg/l ±4% of reading
Nitrite, Low Range	HI 93707	0.00 to 0.35 mg/l	0.01 mg/l	Diazotation	±0.02 mg/l ±4% of reading
Oxygen, Dissolved	HI 93732N	0.0 to 10.0 mg/l	0.1 mg/l	Modified Winkler	±0.2 mg/l ±3% of reading
Phosphate, High Range	HI 93717	0.0 to 30.0 mg/l	0.1 mg/l	Amino Acid	±1 mg/l ±4% of reading
Phosphate, Low Range	HI 93713	0.00 to 2.50 mg/l	0.01 mg/l	Ascorbic Acid	±0.04 mg/l ±4% of reading
Phosphorus	HI 93706	0.0 to 15.0 mg/l	0.1 mg/l	Amino Acid	±0.3 mg/l ±4% of reading
Potassium	HI 93750	0.00 to 10.0 mg/l	0.05 mg/l	Turbidimetric	±0.05 mg/l ±5% of reading
		10.0 to 50.0 mg/l	0.1 mg/l	Turbidimetric	±1 mg/l ±5% of reading
Silica	HI 93705	0.00 to 2.00 mg/l	0.01 mg/l	Heteropoly Blue	±0.03 mg/l ±3% of reading
Silver	HI 93737	0.000 to 1.000 mg/l	0.001 mg/l	PAN	±0.005 mg/l ±4% of reading
Sulfate	HI 93751	0 to 150 mg/l	1 mg/l	Turbidimetric	±1 mg/l ±5% of reading
Zinc	HI 93731	0.00 to 3.00 mg/l	0.01 mg/l	Zincon	±0.03 mg/l ±3% of reading

Multiparameters also available. For specific reagents (liquid or powder) call us at 1-800-842-6629 or visit us at hannacn.com.

Chemical Test Kits

For simple and economical analysis

Hanna's test kits are simple to use, user friendly and provide a very economical way to perform chemical analysis. Our wide variety includes single parameter test kits with different measuring ranges as well as combination test kits including all the necessary reagents for a specific application.



Checker Disc



Colorimetric



Titration

The HI 3814 above combination chemical test kit allows the user to perform analysis of the six most important parameters to be monitored in the environment: acidity, alkalinity, carbon dioxide, dissolved oxygen, hardness and pH.

Parameter	Range	Code
Acidity	0-500 mg/l	HI 3820
Acidity (Total exchangeable)	0-2,5 meq/100g	HI 38084
Alkalinity, Total	0-500 gpg	HI 38014
Alkalinity, P & Total	0-300 ppm	HI 3811
Alkalinity, P & Total	0-20 gpg	HI 38013
Ascorbic Acid	10-200 mg/l	HI 3850
Boron	0-5.0 mg/l	HI 38074
Bromine	0-3.0 mg/l	HI 3830
Carbon dioxide	0-100 mg/l	HI 3818
Chloride	0-1000 mg/l	HI 3815
Chloride, extended range	0-100.000 mg/l	HI 38015
Chlorine, Free	0-2.5 mg/l	HI 3831F
Chlorine, Free	0-3.5 mg/l	HI 3875
Chlorine, Free (double range)	0-3.5 mg/l	HI 38018
Chlorine, Total	0-2.5 mg/l	HI 3831T
Chlorine, Total	0-3.5 mg/l	HI 38016
Chlorine, Total (double range)	0-3.5 mg/l	HI 38019
Chlorine, Total HR	0-20.0 mg/l	HI 38022
Chlorine, Total (extended range)	10-200 mg/l	HI 38023
Chlorine, Free & Total	0-3.5 mg/l	HI 38017
Chlorine, Free & Total (wide range)	0-10.0 mg/l	HI 38020
Chromium (hexavalent)	0-1000 mg/l	HI 3845
Chromium (hexavalent)	0-1.0 mg/l	HI 3846
Copper LR	0-0.25 mg/l	HI 3856
Copper	0-2.5 mg/l	HI 3847
Copper, wide range	0-6.0 mg/l	HI 38075
Cyanide	0-0.30 mg/l	HI 3855
Cyanuric Acid	10-100 mg/l	HI 3851
Detergents	0-1.3 mg/l	HI 3857
Formaldehyde	0-10%	HI 3838
Glycols	Present/Absent	HI 3859
Gypsum requirement	0-213 metric ton/ha	HI 38083
Hardness, Total	0-150 mg/l	HI 3840 (-S)
Hardness, Total	40-500 mg/l	HI 3841 (-S)
Hardness, Total	400-3000 mg/l	HI 3842 (-S)
Hardness, Total	0-30 gpg	HI 38033
Hardness, Total (double range)	0-300 mg/l	HI 3812
Hardness, Total (double range)	0-20 gpg	HI 38034
Hardness, Total & Calcium	0-20 gpg	HI 38035
Hardness, Calcium (double range)	0-250 mg/l	HI 38086
Hardness, Magnesium (double range)	0-725 mg/l	HI 38079
Hardness, Calcium & Magnesium (Irrig.)	> 0 meq/l	HI 38081

Parameter	Range	Code
Hardness, Calcium & Magnesium (soil)	> 0 meq/100 g	HI 38080
Hydrazine	0-1.00 mg/l	HI 3849
Hydrogen Peroxide	0-10.0 mg/l	HI 3844
Hydroxide	0-10 g/l	HI 3839
Hypochlorite	50-150 g/l	HI 3843
Iodine	0-2.5 mg/l	HI 3832
Iodine, HR	0-5.0 mg/l	HI 3879
Iron (Total)	0-5 mg/l	HI 3834
Iron (Total), LR	0-1.0 mg/l	HI 38039
Iron (Total), MR	0-5.0 mg/l	HI 38040
Iron (Total), HR	0-10.0 mg/l	HI 38041
Manganese	0-3.0 mg/l	HI 38042
Manganese, HR	0-10.0 mg/l	HI 38072
Nitrogen, Ammonia (fresh water)	0-2.5 mg/l	HI 3824
Nitrogen, Ammonia (fresh water)	0-3.0 mg/l	HI 38049
Nitrogen, Ammonia (salt water)	0-2.5 mg/l	HI 3826
Nitrogen, Nitrate	0-50 mg/l	HI 3874
Nitrogen, Nitrate (Irrig. & Soil)	0-60 mg/l	HI 38050
Nitrogen, Nitrite (LR)	0-0.5 mg/l	HI 38051
Nitrogen, Nitrite	0-1.0 mg/l	HI 3873
Oxygen, Dissolved	0-10 mg/l	HI 3810
Ozone	0-2.3 mg/l	HI 38054
pH	4.0-6.5 pH	HI 3880 (0)
pH	6.0-8.5 pH	HI 3881 (0)
pH	7.5-10.0 pH	HI 3886 (0)
pH	3.0-5.0 pH	HI 3882
pH, wide range	4.0-10.0 pH	HI 38058
Phenols	0-5.0 mg/l	HI 3864
Phosphate	0-5 mg/l	HI 3833
Phosphate	0-5.0 mg/l	HI 38077
Phosphate, wide range	0-50 mg/l	HI 38061
Phosphorus (Soil)	0-130 mg/l	HI 38073
Potassium (Soil)	0-250 mg/l	HI 38082
Salinity	0-40 g/Kg	HI 3835
Silica	0-1.0 mg/l	HI 38066
Silica, HR	0-800 mg/l	HI 38067
Sodium Absorption Ratio (SAR)	> 0 meq/l	HI 38078
Sulfate	20-100 mg/l	HI 38000
Sulfate, HR	100-10000 mg/l	HI 38001
Sulfite	0-200 mg/l	HI 3822
Zinc	0-3.0 mg/l	HI 3854
Zinc, HR	0-20.0 mg/l	HI 38076



MAL 100

Need an extra in it? Need to fit more than one meter?
Ask for your personalized kit and experience the
Hanna difference!



HI 740218

All colorimeters can be custom fit into a
rugged carrying case for ease of use
and transportation. Pre-cut foam pieces
allow the user to easily fit reagents,
cuvets, caps, wiping tissue, etc.. Ask us
to do it for you, we'll be glad to get it
ready to use when it gets to your door!

Accessories



HI 710007
HI 710008
HI 710009
HI 710010

Blue rubber boot for HI 991001-2-3, HI 991300-01
Orange rubber boot for HI 991001-2-3, HI 991300-01
Blue rubber boot for colorimeters & HI 9810-11-12
Orange rubber boot for colorimeters & HI 9810-11-12



HI 710034
HI 710035

10 paper rolls for portable meters
Ink cartridge for portable meters



HI 92000
HI 9200
HI 920010/9

Windows® compatible software for portables meters
9-pin infrared transmitter
9 to 9-pin connection cable for HI 98140 - HI 98150



HI 93701-00
HI 93701-10
HI 93701-11

HI 93701-25
HI 93701-50

Free chlorine standard 0 mg/l, 4 pcs
Free chlorine standard 1 mg/l, 4 pcs
Free chlorine standards 0, 0.25, 0.5 and
1 mg/l, 1 of each (4 pcs)
Free chlorine standard 0.25 mg/l, 4 pcs
Free chlorine standard 0.5 mg/l, 4 pcs



HI 710001

Soft carrying case for Colorimeters



HI 93703-0
HI 93703-10
HI 93703-05

AMCO-EPA cal. solution, 0 NTU, 30 ml for HI 93703
AMCO-EPA cal. solution, 10 NTU, 30 ml for HI 93703
AMCO-EPA cal. solution, 500 FTU, 30 ml for HI 93703-11



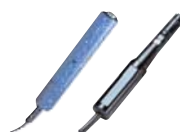
HI 731321
HI 731325
HI 731318

Cuvets (4 pcs) for Colorimeters
Caps (4 pcs) for Colorimeters
Tissue (4 pcs) for wiping cuvettes



HI 76407A/P
HI 70415

Pack of 5 replacement membranes for
HI 9143-45 & HI 9141-410 Dissolved Oxygen meters
Electrolyte solution for Dissolved Oxygen meters, 30 ml



HI 76302W/10
HI 76302W/20
HI 76302W/30

HI 76407/10
HI 76407/20
HI 76407/30

10 m. Conductivity probe for HI 9033-34 & HI 933300-01
20 m. Conductivity probe for HI 9033-34 & HI 933300-01
30 m. Conductivity probe for HI 9033-34 & HI 933300-01

10 m. D.O. probe for HI 9143-45 & HI 9141-410
20 m. D.O. probe for HI 9143-45 & HI 9141-410
30 m. D.O. probe for HI 9143-45 & HI 9141-410



HI 740218
HI 721317

HI 93703-C
MAL-100

Colorimeters and turbidity meters' carrying case
General carrying case for waterproof
& printing/logging meters
HI 93703 complete kit with case and accessories
Personalized carrying case

It is difficult to exaggerate the importance of buffer and maintenance solutions. Expensive equipment is often utilized well below its full capabilities due to lack of proper maintenance of sensors. With Hanna solutions, this is no longer a problem.



Single use, field calibration sachets

pH

Code	Description	Size
HI 7007/1G	pH 7.01 calibration buffer, colored	4 liter
HI 7007/1L	pH 7.01 calibration buffer, colored	1 liter
HI 7007L	pH 7.01 calibration buffer	460 ml
HI 7007M	pH 7.01 calibration buffer	230 ml
HI 70007P	pH 7.01 calibration buffer	25 x 20 ml
HI 7004/1G	pH 4.01 calibration buffer, colored	4 liter
HI 7004/1L	pH 4.01 calibration buffer, colored	1 liter
HI 7004L	pH 4.01 calibration buffer	460 ml
HI 7004M	pH 4.01 calibration buffer	230 ml
HI 70004P	pH 4.01 calibration buffer	25 x 20 ml
HI PHKIT	pH calibration starter kit	3 x 20 ml (pH 7) + 3 x 20 ml (pH 4)
HI 7061L	Cleaning solution for pH testers/meters	460 ml
HI 7061M	Cleaning solution for pH testers/meters	230 ml
HI 70300L	Storage solution for pH testers/meters	460 ml
HI 70300M	Storage solution for pH testers/meters	230 ml
HI MTNKIT	Maintenance kit (cleaning & storage)	1 x 230 ml (cleaning) + 1 x 230 ml (storage)



Maintenance Kit Calibration Starter Kits

TDS

Code	Description	Size
HI 7032L	1382 ppm calibration solution, 0.5 conv. factor	460 ml
HI 7032M	1382 ppm calibration solution, 0.5 conv. factor	230 ml
HI 70032P	1382 ppm calibration solution, 0.5 conv. factor	25 x 20 ml
HI TDSKIT	1382 ppm calibration starter kit	5 x 20 ml

EC

Code	Description	Size
HI 7030L	12880 µS/cm calibration solution	460 ml
HI 7030M	12880 µS/cm calibration solution	230 ml
HI 70030P	12880 µS/cm calibration solution	25 x 20 ml
HI 7039L	5000 µS/cm calibration solution	460 ml
HI 7039M	5000 µS/cm calibration solution	230 ml
HI 70039P	5000 µS/cm calibration solution	25 x 20 ml
HI 7031L	1413 µS/cm calibration solution	460 ml
HI 7031M	1413 µS/cm calibration solution	230 ml
HI 70031P	1413µS/cm calibration solution	25 x 20 ml
HI ECHKIT	12880 µS/cm calibration starter kit	5 x 20 ml
HI ECLKIT	1413 µS/cm calibration starter kit	5 x 20 ml



ORP

Code	Description	Size
HI 7091L	Pretreatment reducing solution	460 ml
HI 7092L	Pretreatment oxydizing solution	460 ml
HI 7021L	Test solution 240 mV	460 ml
HI 7022L	Test solution 470 mV	460 ml