

Multiparameter Instruments for pH, EC, TDS and Temperature!

pH Testers, Meters and Controllers

Conductivity Testers, Meters and Controllers

TDS Testers, Meters and Controllers

Dissolved Oxygen Meters

Temperature Testers and Meters

Pumps

Irrigation/Fertilization Controllers

Chemical Test Kits

Solutions



HANNA
instruments
Agricultural Division

Authorized Distributor www.clarksonlab.com

Combo Waterproof pH/EC/TDS/Temperature Tester

The HI 98129 and HI 98130 Combo waterproof testers are designed for high accuracy pH, EC/TDS and temperature measurements. These technologically advanced testers have a replaceable pH electrode cartridge with an extendable cloth junction as well as an EC/TDS graphite electrode that resists contamination by salts and other substances.



Replaceable pH
Electrode Cartridge!

- Waterproof, Floating
- % Battery Power Illumination
- High Accuracy
- Large Dual-level LCD
- Adjustable TDS Ratio
- Adjustable B
- Automatic Shut-off
- Automatic Calibration



HI 98129

Range	pH0.00 to 14.00
	EC0 to 3999 μ S/cm
	TDS0 to 2000 ppm
	Temp.32.0 to 140.0°F
	or 0.0 to 60.0°C

Accuracy

pH	±0.05
EC/TDS	±2% F.S.
Temp.	±1°F or ±0.5°C

HI 98130

Range	pH0.00 to 14.00
	EC0.00 to 20.00 mS/cm
	TDS0.00 to 10.00 ppt
	Temp.32.0 to 140.0°F
	or 0.0 to 60.0°C

Accuracy

pH	±0.05
EC/TDS	±2% F.S.
Temp.	±1°F or ±0.5°C

HI 9813 Portable pH/EC/TDS Meter

3 meters in 1 with manual calibration and rugged replaceable cloth junction probe. Specifically engineered for growing applications, with 0.7 TDS conversion factor. The specially engineered 4-in-1 HI 1285 probe is interchangeable and the pH electrode utilizes a fiber junction and gel electrolyte which are particularly suitable when used in fertilizer solutions.

HI 9813

Range	pH0.0 to 14.0
	EC0.00 to 4.00 mS/cm
	TDS0 to 1999 ppm

Accuracy

pH	±0.2
EC	±2% F.S.
TDS	±2% F.S.



Accessories
HI 710009Blue protective
rubber boot

HI 991300 Waterproof 4-in-1 Multiparameter Meter

The HI 991300 features % battery power display, adjustable EC/TDS ratio, automatic temperature compensation and a tri-level LCD. With only two buttons, the user can select testing parameters, calibrate the sensor, change the TDS factor and temperature coefficient (β). The multi-functional industrial probe houses the pH and conductivity sensor along with an integrated solid state amplifier to eliminate noise and interference.

HI 991300

Range	pH0.00 to 14.00
	EC0 to 3999 μ S/cm
	TDS0 to 2000 ppm
	Temp.32.0 to 140.0°F
	or 0.0 to 60.0°C

Accuracy

pH	±0.01
EC	±2% F.S.
TDS	±2% F.S.
Temp.	±1.0°F
	or ±0.5°C

GRO'CHEK Combo pH/EC/TDS/Temperature Monitor

The new Combo GRO'CHEK from Hanna has a dual-level backlit LCD to give you instantaneous readings of pH/EC/TDS and temperature. The microprocessor provides automatic calibration, automatic buffer selection, automatic temperature compensation, adjustable β and adjustable TDS ratio.



HI 991404

Range	pH0.00 to 14.00
	EC0 to 3999 μ S/cm
	TDS0 to 2000 ppm
	Temp.32.0 to 140.0°F
	or 0.0 to 60.0°C

Accuracy

pH	±0.05
EC/TDS	±2% F.S.
Temp.	±1°F or ±0.5°C

HI 991405

Range	pH0.00 to 14.00
	EC0.00 to 20.00 mS/cm
	TDS0.00 to 10.00 ppt
	Temp.32.0 to 140.0°F
	or 0.0 to 60.0°C

Accuracy

pH	±0.05
EC/TDS	±2% F.S.
Temp.	±1°F or ±0.5°C



GRO'CHEK Combo 2 Meters in 1 with Large LCD

These new and improved combination pH and TDS or pH and EC meters feature a large LCD for monitoring your critical parameters from a distance.

HI 981404N

Range	TDS0 to 1990 ppm
	pH0.0 to 14.0

Accuracy

TDS	±2% F.S.
pH	±0.2



HI 981405N

Range	EC0.00 to 9.99 mS/cm
	pH0.0 to 14.0

Accuracy

EC	±2% F.S.
pH	±0.2

Accessories

HI 77400P	Cal. kit (pH 4 & 7, 20 mL, 5 pcs ea.)
HI 70039P . . . . .	.5000 μ S/cm @ 25°C cal. kit (25 x 20 mL)
HI 70300M	Electrode storage sol., 230 mL
HI 7061M	Electrode cleaning sol., 230mL

BlackStone BL Series Chemical Metering Pumps

These simple and reliable diaphragm pumps are composed of high quality components and incorporate chemical-resistant Teflon® and Kynar® heads and diaphragms. The Blackstone series of pumps are positive displacement solenoid driven, using a minimum number of moving parts, therefore reducing the chance of mechanical failure.



Order the dosing pump according to your needs:

BL1.5/U . . . . .	.110/115V, 0.4 gph (1.5 lph)
BL3/U . . . . .	.110/115V, 0.8 gph (2.9 lph)
BL5/U . . . . .	.110/115V, 1.3 gph (5.0 lph)
BL7/U . . . . .	.110/115V, 2.0 gph (7.6 lph)
BL10/U . . . . .	.110/115V, 2.9 gph (10.8 lph)
BL15/U . . . . .	.110/115V, 4.0 gph (15.2 lph)
BL20/U . . . . .	.110/115V, 4.8 gph (18.3 lph)

Maximum Capacity See table above

Pump Casing Fiber-reinforced polypropylene

Pumphead Pumphead in Kynar®, diaphragm and valve seats in Teflon®, glass ball valves and O-Rings in Viton®

Fittings Polyethylene 5 x 8 mm tubing, 3/8" gas pipeline injection fitting

Self-Priming Max. self-priming height 5 feet (1.5 m)

Hanna Instruments has been providing the Hydroponics industry with the highest quality scientific products for over a decade. Once again, Hanna is proud to introduce NEW products to the market, the result of our valuable customers feedback. Hanna products are sold throughout a fine network of distributors across the country, so when you need a scientific product for your hydroponics needs, simply visit your local hydroponics store and ask for a Hanna instrument. Once again, thank you for your continuous support!

For more information or to find a dealer near you call Hanna Instruments Agricultural Division at: 877.694.2662

www.hannainst.com



HANNA
instruments
Agricultural Division

The Widest Selection of pH, EC and TDS Meters Available in the Market Today!

pHep®4 & pHep®5 Waterproof pH & Temperature Testers

The pHep®4 and pHep®5 include features such as waterproof casing that floats, dual-level LCD, temperature in °C and °F, battery level indicator, replaceable pH electrode cartridge, stability indicator, automatic shut-off and automatic calibration.

These testers are beyond your expectations!



Replaceable pH Electrode Cartridge. No Pins to Bend or Break!

- Waterproof, Floating
- Large, Dual-level LCD
- Stability Indicator
- % Battery Power Illumination
- Automatic Shut-off
- Automatic Calibration



HI 98127 (pHep®4)		HI 98128 (pHep®5)	
Range	pH 0.0 to 14.0	Range	pH 0.00 to 14.00
Temp.	. . . . . 32.0 to 140.0°F or 0.0 to 60.0°C	Temp.	. . . . . 32.0 to 140.0°F or 0.0 to 60.0°C
Accuracy	pH ±0.1	Accuracy	pH ±0.05
	Temp. ±1°F or ±0.5°C		Temp. ±1°F or ±0.5°C

Accessories

HI 73127	. . . . . pH electrode
HI 7004M	. . . . . pH 4.01 buffer solution, 230 mL
HI 7007M	. . . . . pH 7.01 buffer solution, 230 mL

pHep® pH Tester with 2-Point Calibration

- 2-Point Calibration
- Large LCD
- 1700 Hours of Battery Life
- Rugged Ergonomic Casing

pHep® the standard in pH measurement with 0.1 pH accuracy, has 2-point calibration, large LCD, pull out replenishable junction and 1700 hours of battery life. With the latest innovation of a non-clogging fiber junction, the new pHep® meters last much longer.



HI 98107 (pHep®)	
Range	pH 0.0 to 14.0
Accuracy	pH ±0.1

Accessories

HI 1286	. . . . . pH electrode with 2 m (7') cable
HI 7004M	. . . . . pH 4.01 buffer solution, 230 mL
HI 7007M	. . . . . pH 7.01 buffer solution, 230 mL

GRO'CHEK pH Stick Tester with Heavy Duty Probe



The pH GRO'CHEK is an ideal meter for use anywhere liquid nutrient feeding is used. The rugged sensor was designed for mixing and incorporates a cloth renewable junction. The water and shock resistant casing stands up to even harsh greenhouse environments.

- Rugged, Water Resistant Housing
- Shock Resistant
- Replaceable Probe
- Ideal for Mixing
- Runs on AA Batteries

HI 981408	
Range	pH 0.0 to 14.0
Accuracy	pH ±0.2

Accessories

HI 1219	. . . . . Double junction pH electrode
HI 7004M	. . . . . pH 4.01 buffer solution, 230 mL
HI 7007M	. . . . . pH 7.01 buffer solution, 230 mL
HI 7061M	. . . . . Electrode cleaning solution, 230mL
HI 70000P	. . . . . Rinse solution (25 x 20 mL)
HI 70300M	. . . . . Electrode storage solution, 230 mL

GRO'CHEK pH Monitor with Large LCD

The popular GRO'CHEK pH monitor has been updated with a larger, easy-to-read LCD. Waterproof casing guarantees operation after accidental exposure to water. The professional pH electrode gives you accurate results every time.



HI 981401N	
Range	pH 0.0 to 14.0
Accuracy	pH ±0.2

Accessories

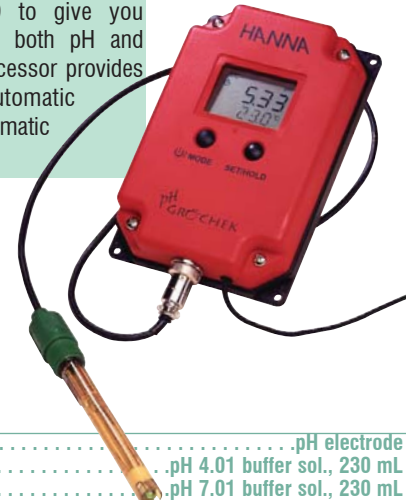
HI 1286	. . . . . pH electrode with 2 m (7') cable
HI 7004M	. . . . . pH 4.01 buffer solution, 230 mL
HI 7007M	. . . . . pH 7.01 buffer solution, 230 mL
HI 70300M	. . . . . Electrode storage solution, 230 mL

GRO'CHEK pH Monitor with Dual-level Backlit LCD

- Waterproof
- Stability Indicator
- Extra Large Display
- 12V Power Supply

The new GRO'CHEK from Hanna has a dual-level backlit LCD to give you instantaneous readings of both pH and temperature. The microprocessor provides automatic calibration, automatic buffer selection and automatic temperature compensation.

HI 991401	
Range	pH 0.00 to 14.00
Temp.	. . . . . 32.0 to 140.0°F or 0.0 to 60.0°C
Accuracy	pH ±0.05
	Temp. ±1°F (±0.5°C)



Accessories

HI 12930	. . . . . pH electrode
HI 7004M	. . . . . pH 4.01 buffer sol., 230 mL
HI 7007M	. . . . . pH 7.01 buffer sol., 230 mL
HI 7010M	. . . . . pH 10.01 buffer sol., 230 mL
HI 7061M	. . . . . Electrode cleaning sol., 230mL
HI 70000P	. . . . . Rinse solution (25 x 20 mL)
HI 70300M	. . . . . Electrode storage sol., 230 mL

HI 9913 Wall Mounting pH & Conductivity Controller

- 2-in-1: pH and Conductivity
- Economical
- ATC
- Alarm Relay

HI 9913 is a 2-in-1 pH and conductivity controller engineered for cost-effective dosage of fertilizer solutions in hydroponics. Two separate setpoints can be user-adjusted from 4 to 7 pH and 1.00 to 4.00 EC (mS/cm). The relays are activated when pH exceeds the setpoint or conductivity falls below the desired value. Two pumps or electro-valves can be wired directly to the controller and be powered through the terminals. The operator can adjust two independent proportional settings for pH and conductivity. The time cycle is adjustable from 0 to 90 seconds, while the proportional band is 0 to 2.0 for both pH and EC.



HI 9913	
Range	pH 0.00 to 14.00
	EC 0.00 to 10.00 mS/cm
Accuracy	pH ±0.02
	EC ±2% F.S.

Accessories

HI 1002/5	. . . . . Plastic in-line pH electrode
HI 7004M	. . . . . pH 4.01 buffer solution, 230 mL
HI 7007M	. . . . . pH 7.01 buffer solution, 230 mL
HI 7031M	. . . . . 1413 µS/cm conductivity solution, 230 mL

DiST®5 & DiST®6 Waterproof EC/TDS/Temperature Testers



The DiST®5 and DiST®6 include features such as a waterproof casing that floats, adjustable TDS ratio, temperature in °C and °F, adjustable β, Automatic shut-off and automatic calibration. This tester is unmatched in EC/TDS/Temperature measurement!



Replaceable Graphite Electrode Cartridge!

- Waterproof, Floating
- % Battery Power Illumination
- Large, Dual-level LCD
- Adjustable TDS Ratio
- Adjustable β
- Automatic Shut-off
- Automatic Calibration

HI 98311 (DiST®5)	
Range	EC 0 to 3999 µS/cm
	TDS 0 to 2000 ppm
Temp.	. . . . . 32.0 to 140.0°F or 0.0 to 60.0°C

Accuracy	
EC/TDS	. . . . . ±2% F.S.
Temp.	. . . . . ±1°F or ±0.5°C

HI 98312 (DiST®6)	
Range	EC 0.00 to 20.00 mS/cm
	TDS 0.00 to 10.00 ppt
Temp.	. . . . . 32.0 to 140.0°F or 0.0 to 60.0°C

Accuracy	
EC/TDS	. . . . . ±2% F.S.
Temp.	. . . . . ±1°F or ±0.5°C

HI 9935 Wall Mounting pH & TDS Controller

- 2-in-1: pH and TDS
- Economical
- ATC
- Alarm Relay

HI 9935 is a 2-in-1 pH and TDS controller engineered for economical dosage of fertilizer solutions in hydroponics. Two separate setpoints can be user-adjusted from 4 to 7 pH and 900 to 1800 ppm (mg/L). The relays are activated when pH exceeds the setpoint or TDS falls below the desired value. Two pumps or electro-valves can be wired directly to the controller and be powered through the terminals. Independent proportional settings for pH and TDS can be adjusted from 0 to 90 seconds, 0 to 2.0 for pH and 0 to 400 for TDS.



HI 9935	
Range	pH 0.00 to 14.00
	TDS 0 to 1999 ppm
Accuracy	pH ±0.02
	TDS ±2% F.S.

Accessories

HI 1002/5	. . . . . Plastic in-line pH electrode
HI 7004M	. . . . . pH 4.01 buffer sol., 230 mL
HI 7007M	. . . . . pH 7.01 buffer sol., 230 mL
HI 70442M	. . . . . 1500 ppm TDS solution, 230 mL

HI 981409 & HI 981410 TDS and EC Stick Testers

- Water Resistant
- Automatic Calibration
- ATC
- Ideal for Mixing Fertilizer

The GRO'CHEK TDS and EC stick testers are ideal anywhere liquid nutrient feeding is used. These testers incorporate an external temperature sensor for more rapid readings. These testers also feature automatic calibration, automatic temperature compensation and rugged housing. The EC and TDS GRO'CHEK testers utilize AA batteries and features an auto shut-off after 5 minutes.



HI 981409	
Range	TDS 0 to 1999 ppm
Accuracy	TDS ±2% F.S.

HI 981410	
Range	EC 0.00 to 10.00 mS/cm
Accuracy	EC ±2% F.S.

Accessories

HI 1220	. . . . . EC/TDS probe, L: 240 mm, DIN connector
HI 7039M	. . . . . 5000 µS/cm @ 25°C cal. sol., 230 mL
HI 7032M	. . . . . 1382 ppm @ 25°C cal. sol., 230 mL
HI 70442M	. . . . . 1500 ppm @ 25°C cal. sol., 230 mL
HI 7061M	. . . . . Electrode cleaning solution, 230mL
HI 70300M	. . . . . Electrode storage solution, 230 mL

DiST® EC and TDS Testers with ATC

- Graphite Sensor
- Quick Accurate Readings
- Large LCD
- Rugged Housing

This DiST family of testers utilize a graphite sensor interface for greater accuracy and external temperature sensor for quicker more stable readings. The DiST features a large LCD, BEPS and rugged housing for longer life.



HI 98300/98301 (DiST®1)*	
Range	TDS 0 to 1999 ppm
Accuracy	TDS ±2% F.S.

HI 98302 (DiST®2)	
Range	TDS 0.00 to 10.00 ppt
Accuracy	TDS ±2% F.S.

HI 98303 (DiST®3)	
Range	EC 0 to 1999 µS/cm
Accuracy	EC ±2% F.S.

HI 98304 (DiST®4)	
Range	EC 0.00 to 19.99 mS/cm
Accuracy	EC ±2% F.S.

*HI98300 (TDS factor = 0.65) / HI98301 (TDS factor = 0.5)

Accessories

HI 7039M	. . . . . 5000 µS/cm @ 25°C cal. sol., 230 mL
HI 7032M	. . . . . 1382 ppm @ 25°C cal. sol., 230 mL
HI 7031M	. . . . . 1413 µS/cm @ 25°C cal. sol., 230 mL

GRO'CHEK EC and TDS Monitor

The new EC/TDS GRO'CHEK from Hanna has a dual-level backlit LCD to give you instantaneous readings of both EC/TDS and temperature. The microprocessor provides automatic calibration, automatic buffer selection and automatic temperature compensation.

- Waterproof
- Dual-level Backlit LCD
- Adjustable TDS Ratio
- Adjustable β
- Extra Large Display
- 12V Power Supply



HI 993301	
Range	EC 0 to 3999 µS/cm
	TDS 0 to 2000 ppm
Temp.	. . . . . 32.0 to 140.0°F or 0.0 to 60.0°C

Accuracy	
EC	. . . . . ±2% F.S.
TDS	. . . . . ±2% F.S.
Temp.	. . . . . ±1°F (±0.5°C)

Accessories

HI 7039M	. . . . . 5000 µS/cm @ 25°C cal. sol., 230 mL
HI 7032M	. . . . . 1382 ppm @ 25°C cal. sol., 230 mL
HI 7031M	. . . . . 1413 µS/cm @ 25°C cal. sol., 230 mL

GRO'CHEK EC and TDS Monitors with Large LCD

The popular GRO'CHEK EC/TDS monitor has been upgraded with a larger, easy-to-read LCD. Plus the waterproof casing guarantees operation after accidental water exposure. The professional pH electrode gives you accurate results every time.



HI 983301N	
Range	TDS 0 to 1990 ppm
Accuracy	TDS ±2% F.S.

HI 983302N	
Range	EC 0.00 to 9.99 mS/cm
Accuracy	EC ±2% F.S.