

Measure

6.75 pH  
1070 ppm  
21.9 °C

MENU

HELP

*GroCine*

Scientific products for the hydroponics grower



HI-981420

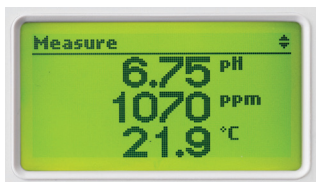
## GroLine Monitor

*with Multiparameter Probe*

The HI-981420 GroLine Monitor provides 24 hour continuous monitoring of pH, conductivity (EC or TDS), and temperature in hydroponic nutrients.

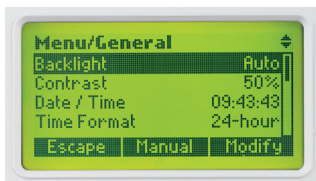
Quick to setup, simple to use, this monitor was designed with Hydroponics, Aquaponics, and Greenhouses in mind. The housing is waterproof and rated for IP65 conditions.

- Wide pH Range: measure pH from 0.00 to 14.00 pH
- Selectable EC to TDS ppm conversion factor: choice of either a 0.5 or 0.7 conversion factor
- IP65 rated enclosure: designed to withstand harsh growing environments
- Large LCD with plant-friendly green backlighting: meter displays a clock tag that will disappear when the reading has achieved stability
- 3 sensors combined in a single rugged probe body: pH electrode with renewable cloth junction, amperometric EC/TDS sensor, and an internal temperature sensor for temperature compensated readings
- Ambient light sensor: for automatic LCD dimming
- Data logging for 30 days: logs every 15 minutes for last 30 days, stores min, max, and average values
- Data transfer: USB-C port for easy data transfer to memory stick or PC
- High and low alarms with LED indicator: warns when process is out of desired range by flashing display and message
- Automatic Temperature Compensation: all readings are compensated for variations in temperature, temperature displayed in °C or °F along with pH, EC or TDS reading



## Measure like a pro..!

The GroLine Monitor has been developed by growers and scientists who are committed to helping you take your growing operation to the next level.



## At a glance...

A large clear LCD shows all of your essential readings so you know what your nutrient solution is doing 24/7. High and low alarms flash to warn you if something needs adjusting.



## One probe. Three measurements.

The 3-in-1 pre-amplified probe measures pH, EC/TDS and temperature in a single, durable, polypropylene body making the GroLine Monitor easy to handle and easy to set up.

## Professional accuracy

Advanced algorithms provide greater pH and TDS/ppm accuracy to ensure operational consistency and a finer understanding of your plant's needs.



## Quick Cal...

A single calibration solution for pH and conductivity makes calibration fast and ensures all of your measurements are accurate resulting in better plant health and better yield.

## Giving growers the green light!

The revolutionary HI-981420 GroLine Monitor emits just the right amount of green light from its screen so as to not disturb the seedlings' natural growing cycles.



## The benefits of having a gentle green glow:

- Works alongside red and blue lighting systems
- Natural growth regulator
- Does not disturb the plants' 'night sleep' cycle
- Can repress the growth of algae and fungus

°C/°F  
TDS  
EC  
pH



HI-9814

## pH/EC/TDS/Temperature Meter

*with Multiparameter Probe*

The HI-9814 is a slim, lightweight, and waterproof portable meter that measures pH, conductivity (EC), total dissolved solids (TDS) and temperature with a single amplified probe. All operations and settings, including calibration buffers and temperature scale selections, are made through only two buttons.

- Waterproof
- 3 in 1 amplified probe with pH, EC/TDS and temperature sensors
- Quick Cal mode to calibrate pH and EC/TDS with one solution
- EC to TDS conversion factor selectable between 0.5 (500 ppm) and 0.7 (700 ppm)
- HI-1294 pH/temperature probe for direct soil also available

**Quick Cal**

Shown with optional **HI-710025**  
shockproof rubber boot

°C/°F  
TDS  
EC  
pH



HI-98131

## pH/EC/TDS/Temperature Tester

*with Replaceable pH Electrode Cartridge*

The HI-98131 is a slim, lightweight, and waterproof pocket sized meter that measures pH, conductivity (EC), total dissolved solids (TDS) and temperature. All operations and settings, including calibration buffers and temperature scale selections are made using two buttons.

- Waterproof
- TDS conversion factor selectable between 0.5 (500 ppm) and 0.7 (700 ppm)
- Quick Cal mode to calibrate pH and EC/TDS with one solution
- Replaceable pH electrode

**Quick Cal**



**Quick Cal**  
Compatible

## HI-98118 pH/Temperature Tester

*with Extractable pH Electrode Junction*

The HI-98118 pH/temperature tester is ideal for measuring the pH of a hydroponic nutrient solution. This meter is slim and extremely ergonomic, fitting comfortably in your hand. The HI-98118 has a very large easy to read LCD display that shows both pH and temperature along with calibration, stability and low battery indicators. All operations are simplified to just two buttons. One is for turning the meter on/off and the other for automatic one or two-point calibration.

- Waterproof
- Two-button operation
- 1,000 hour battery life
- Quick Calibration mode using Hanna Quick Cal pH/EC calibration solution



## HI-98115 pH Tester

*with Replaceable Electrode*

The HI-98115 pH tester offers advanced features for the measurement of pH in hydroponic nutrient solutions. The HI-98115 is a very simple meter to operate with all functions including turning on/off and calibration are performed with a single button. The HI-98115 features a replaceable HI-1271 pH electrode that can be changed when needed without having to buy a new meter.

- One-button operation
- Replacable pH electrode
- 1,000 hour battery life
- Enhanced display for clear pH results together with stability indicator and calibration tags



HI-98331 SoilTest™

## Direct Soil EC Tester

*with Built-in Stainless Steel Penetration Probe*

The HI-98331 SoilTest™ is a rugged and reliable pocket-sized tester that offers quick and accurate readings. This direct soil EC tester features a stainless steel penetration probe for direct measurement of conductivity. With a compact size, single button operation, and automatic calibration, Soil Test is an excellent choice for taking direct conductivity measurements in soil.

- Direct readings in soil
- One-button operation
- 4.5" stainless steel penetration probe
- Automatic Temperature Compensation
- Robust stainless steel penetration probe



HI-98318

## EC/TDS (ppm) / Temperature Tester

*with Graphite Sensor*

The HI-98318 is a slim, lightweight, and waterproof pocket sized meter that measures pH, conductivity (EC), total dissolved solids (TDS) and temperature. All operations and settings, including calibration buffers and temperature scale selections are made using two buttons.

- Waterproof
- Two-button operation
- Quick Calibration mode using Hanna Quick Cal pH/EC calibration solution
- Dual level display shows EC/TDS together with temperature

**Quick Cal**  
Compatible

# Calibration and Maintenance Solutions

## Quick Calibration Solution

(for use with HI-9814, HI-98131, HI-98118, HI-98318)

### Quick Cal

pH/EC quick calibration solution

**HI-5036-023** 230 mL bottle

**HI-5036-012** 120 mL bottle

Includes certificate of analysis

### Quick Cal

pH/EC quick calibration solution

**HI-50036P** 20 mL sachets (25)

Includes certificate of analysis

## Conductivity Solutions

### 1.41 mS/cm

conductivity standard solution

**HI-7031-023** 230 mL bottle

**HI-7031-012** 120 mL bottle

Includes certificate of analysis

### 5000 $\mu$ S/cm

conductivity standard solution

**HI-7039-023** 230 mL bottle

**HI-7039-012** 120 mL bottle

Includes certificate of analysis

## pH Cleaning and Storage Solutions

### Cleaning Solution

for pH electrodes

**HI-7061-023** 230 mL bottle

**HI-7061-012** 120 mL bottle

Includes certificate of analysis

### Storage Solution

for pH electrodes

**HI-70300-023** 230 mL bottle

**HI-70300-012** 120 mL bottle

Includes certificate of analysis

## pH Buffer Solutions

### pH 4.01

calibration solution,

$\pm 0.02$  pH @ 25°C (77°F)

**HI-7004-023** 230 mL bottle

**HI7004-012** 120 mL bottle

Includes certificate of analysis

### pH 7.01

calibration solution,

$\pm 0.02$  pH @ 25°C (77°F)

**HI-7007-023** 230 mL bottle

**HI-7007-012** 120 mL bottle

Includes certificate of analysis

### pH 10.01

calibration solution,

$\pm 0.02$  pH @ 25°C (77°F)

**HI-7010-023** 230 mL bottle

**HI-7010-012** 120 mL bottle

Includes certificate of analysis

# Accessories



### Replacement Direct Soil pH/Temperature Electrode

**HI-1294** for HI-9814



### Replacement pH Electrode

**HI-1271** for HI-98115



### Shockproof Rubber Boot

**HI-710025** for HI-9814



# GroLine

Code	HI-981420	HI-9814	HI-98131	HI-98118	HI-98115	HI-98331	HI-98318
pH Range	0.00 to 14.00	0.00 to 14.00	0.00 to 14.00	0.00 to 14.00	0.00 to 14.00	–	–
EC Range	0.00 to 10.00 mS/cm	0.00 to 6.00 mS/cm	0.00 to 6.00 mS/cm	–	–	0 to 4000 µS/cm 0.00 to 4.00 mS/cm (dS/m)	0.00 to 6.00 mS/cm
TDS Range	0 to 5000 ppm (500 CF); 0 to 7000 ppm (700 CF)	0 to 3000 ppm (500 CF); 0 to 3999 ppm (700 CF)	0 to 3000 ppm (500 CF); 0 to 3999 ppm (700 CF)	–	–	–	0 to 3000 ppm (500 CF); 0 to 4000 ppm (700 CF)
Temperature	0.0 to 60.0°C / 32.0 to 140.0°F	0.0 to 60.0°C / 32.0 to 140.0°F	0.0 to 60.0°C / 32.0 to 140.0°F	0.0 to 50.0°C / 32.0 to 122.0°F	–	0.0 to 50.0°C / 32.0 to 122.0°F	0.0 to 50.0°C / 32.0 to 122.0°F
Automatic Calibration	✓	✓	✓	✓	✓	✓	✓
Quick Cal Compatible*	✓	✓	✓	✓ (pH only)	–	–	✓ (EC only)
ATC	✓	✓	✓	✓	–	✓	✓
Waterproof	✓	✓	✓	✓	–	–	✓
Extractable pH Cloth Junction	✓	✓	✓	✓	–	–	–
HOLD Function	N/A	✓	✓	–	–	✓	–
Auto Shut-Off	N/A	✓	✓	✓	✓	✓	✓
Replacable Electrode	✓	✓	✓	–	✓	–	–
Stability Indicator	✓	✓	✓	✓	✓	✓	✓
Datalogging & Alarms	High & low alarms, Automatic logging every 15 minutes of results with 30-day memory + USB-C data transfer			–	–	–	–

\*Quick Cal solution allows for one-point pH and EC calibration

**Your local stockist:**