



HI 9813  
pH/EC/TDS/°C PORTABLE METERS



## HI 9813

# pH/EC/TDS/°C PORTABLE METERS

HI 9813-5 and HI 9813-6 are versatile, water resistant multiparameter portable meters specifically designed for agricultural applications such as hydroponics, greenhouses, farming and nurseries.

This series of instruments feature an extra large LCD that clearly displays the parameter being measured as well as calibration instructions. Calibration is fast and easy with knobs located on the front panel of the instrument.

HI 9813-5 is a pH/EC/TDS meter designed for simplicity of use in taking pH, mS/cm, ppm and temperature in the °C scale measurements.

HI 9813-6 includes all the features of the HI 9813-5 while incorporating our exclusive CAL CHECK™ feature. CAL CHECK™ allows the user to easily check the probe calibration status at any time. Both instruments utilize the HI 1285 series pH/EC/TDS/temperature probe. This probe features a fiber junction and gel electrolyte making it ideal for fertilizer solutions.

## FEATURES

- **Water resistant**
- **On-screen user guides**  
Save time with on-screen calibration guides
- **Exclusive CAL CHECK™ feature**  
Alerts users of calibration status (HI 9813-6 only)
- **BEPS**  
BEPS (Battery Error Protection System) alerts the user in the event that low battery power could adversely affect readings
- **Switch parameters at the touch of a button**
- **Automatic Temperature Compensation**  
For pH and conductivity
- **Simple calibration**  
Dials located on the front panel makes calibration quick and simple, even for non-technical users
- **Battery % displayed on startup**
- **Fast response probe included**



**B.E.P.S. ±**  
Battery Error  
Prevention System

**2** YEAR  
WARRANTY

ISO 9001:2000  
CERTIFIED  
COMPANY



# WE DESIGN, MANUFACTURE, SUPPLY AND SUPPORT ALL OF OUR PRODUCTS.

## THAT'S 360° VALUE

Over the past 30 years, HANNA has never failed to design fresh and innovative products and the new HI 9813 is no exception. We are excited to introduce such high accuracy and ease of use in a compact, modern design that fits right in your hand.

HANNA is the largest family-owned manufacturer of analytical instrumentation in the world. The HI 9813 is manufactured in our European state-of-the-art ISO 9001:2000 production facility and is CE compliant to EN 61326-1 and EN 61010-1 standards.

When you buy a HANNA product, you're not only buying the best value for your money, but you're also adding the benefit of HANNA's unsurpassed customer service and post-sale technical support.

## pH/EC/TDS/Temperature Probe & Starter Solutions Included!



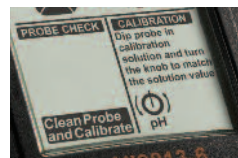
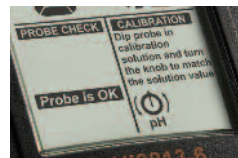
Shown with HI 710008 protective boot (optional)

## HI 9813-6 EXCLUSIVE CAL CHECK™ FEATURE

When used in conjunction with the HI 1285-6 pH/EC/TDS/temperature probe and HI 50021 check solution, the HI 9813-6's CAL CHECK™ feature allows the user to check the meter calibration status at any time with a simple procedure:

- 1) Rinse the probe with water and immerse the probe in HI 50021 check solution.
- 3) Press the Check key.
- 4) If the meter is calibrated "Probe is OK" message is displayed.
- 5) If cleaning is needed "Clean Probe and Calibrate" message is displayed

If cleaning is needed just immerse the probe in HI 700661 cleaning solution for 5 minutes, rinse the probe and check again. Calibration is needed if "Clean Probe and Calibrate" message is displayed a second time.



## HI 1285 SERIES PROBE

The specially engineered HI 1285-5 and HI 1285-6 pH/EC/TDS/temperature probes utilize a fiber junction and gel electrolyte which provide a fast response and reduced contamination. This combination makes these probes particularly suitable to be used in fertilizer solutions.

These probes are interchangeable with other pH meters that use the same connector.

- **Specialized Rugged Probe**

The 1285 series probes are designed to withstand harsh environments such as fertilizer solutions.

SPECIFICATIONS		HI 9813-5	HI 9813-6
<b>Range</b>	<b>pH</b>	0.0 to 14.0 pH	
	<b>EC</b>	0.00 to 4.00 mS/cm	
	<b>TDS</b>	0 to 1999 ppm (mg/L)	
	<b>Temperature</b>	0.0 to 60.0°C	
<b>Resolution</b>	<b>pH</b>	0.1 pH	
	<b>EC</b>	0.01 mS/cm	
	<b>TDS</b>	1 ppm (mg/L)	
	<b>Temperature</b>	0.1°C	
<b>Accuracy (@20°C/68°F)</b>	<b>pH</b>	±0.1 pH	
	<b>EC</b>	±2% F.S. mS/cm	
	<b>TDS</b>	±2% F.S. ppm	
	<b>Temperature</b>	±0.5°C	
<b>TDS Conversion Factor</b>		0.56 to 0.78	
<b>pH Calibration</b>		manual, 1 point	
<b>EC Calibration</b>		manual, 1 point	
<b>EC/TDS Temperature Compensation</b>		automatic 0 to 50°C (32 to 122°F) with $\beta=2\%/^{\circ}\text{C}$	
<b>Probe</b>		HI 1285-5	HI 1285-6 (CAL CHECK™ compatible)
<b>Battery Type / Life</b>		(1) 9V / approximately 150 hours of continuous use	
<b>Environment</b>		0 to 50°C (32 to 122°F); 100% RH	
<b>Dimensions / Weight</b>		144.6 x 79.5 x 37 mm (5.7 x 3.1 x 1.5") / 230 g (8.1 oz.)	

## PROBES

**HI 9813-5** and **HI 9813-6** are supplied with HI 1285-5 (for HI 9813-5) or HI 1285-6 CAL CHECK™ (for HI 9813-6) combination probe with DIN connector & 1 m (3.3') cable, starter set of calibration and cleaning solution sachets, check solution sachet (HI 9813-6 only), battery and instructions.

## PROBES

**HI 1285-5** Combination, amplified pH/EC/TDS/temperature probe with built-in temperature sensor, 8-pin DIN connector and 1 m (3.3') cable.

**HI 1285-6** Combination, amplified pH/EC/TDS/temperature probe with CAL CHECK™ feature, built-in temperature sensor, 8-pin DIN connector and 1 m (3.3') cable.

## CONDUCTIVITY & TDS CALIBRATION SOLUTIONS

- HI 7031L** 1413  $\mu\text{S}/\text{cm}$  solution, 500 mL  
**HI 70442L** 1500 ppm (mg/L) solution, 500 mL

## pH BUFFER SOLUTIONS

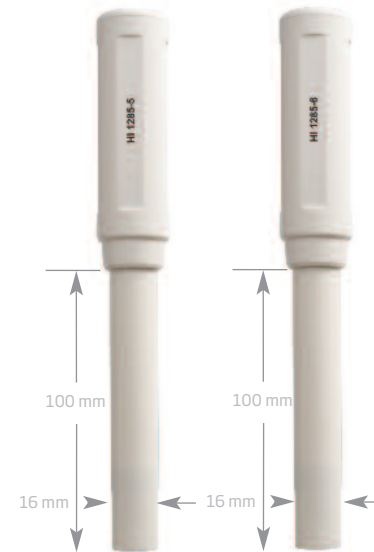
- HI 7004L** pH 4.01 buffer solution, 500 mL  
**HI 7006L** pH 6.86 buffer solution, 500 mL  
**HI 7007L** pH 7.01 buffer solution, 500 mL  
**HI 7009L** pH 9.18 buffer solution, 500 mL  
**HI 7010L** pH 10.01 buffer solution, 500 mL

## OTHER SOLUTIONS

- HI 700661P** Cleaning solution, (25) 20 mL sachets  
**HI 50021P** Check solution, (25) 20 mL sachets  
**HI 70300L** Storage solution, 500 mL

## OTHER ACCESSORIES

- HI 710007** Shockproof rubber boot, blue  
**HI 710008** Shockproof rubber boot, orange



SPECIFICATIONS	HI1285-5	HI 1285-6
<b>Description</b>	Combination probe	Combination probe with CAL CHECK™
<b>Reference</b>	Single, Ag/AgCl	
<b>Junction</b>	Cloth	
<b>Electrolyte</b>	Gel	
<b>Max Pressure</b>	0.1 bar	
<b>Range</b>	pH: 0 to 13 / EC T: 0 to 60°C (32 to 140°F)	
<b>Tip /Shape</b>	Spheric (dia: 8 mm)	
<b>Temperature Sensor</b>	Yes	
<b>Amplifier</b>	Yes	
<b>Body Material</b>	Polypropylene	
<b>Connection/Cable</b>	Multi-pin/ 7-pole; 2 m (6.6')	Multi-pin/ 7-pole; 2 m (6.6')
<b>Recommended Use</b>	Greenhouses, hydroponics, environmental monitoring, water treatment, boilers, cooling towers	

**HANNA**<sup>®</sup>  
instruments  
With Great Products, Come Great Results™