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**

WP WATERPROOF

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.

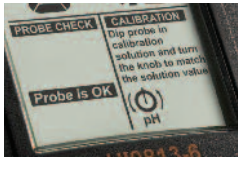
When you buy a HANNA product, you're not only buying the best value for your money, but you're also adding the benefit of HANNA's unsurpassed customer service and post-sale technical support.

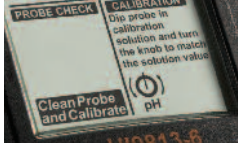
Shown with HI 710008 protective boot (optional)

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

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 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
Range	pH	0.0 to 14.0 pH	
	EC	0.00 to 4.00 mS/cm	
	TDS	0 to 1999 ppm (mg/L)	
	Temperature	0.0 to 60.0°C	
Resolution	pH	0.1 pH	
	EC	0.01 mS/cm	
	TDS	1 ppm (mg/L)	
	Temperature	0.1°C	
Accuracy (@20°C/68°F)	pH	±0.1 pH	
	EC	±2% F.S. mS/cm	
	TDS	±2% F.S. ppm	
	Temperature	±0.5°C	
TDS Conversion Factor		0.56 to 0.78	
pH Calibration		manual, 1 point	
EC Calibration		manual, 1 point	
EC/TDS Temperature Compensation		automatic 0 to 50°C (32 to 122°F) with β=2%/°C	
Probe		HI 1285-5	HI 1285-6 (CAL CHECK™ compatible)
Battery Type / Life		(1) 9V / approximately 150 hours of continuous use	
Environment		0 to 50°C (32 to 122°F); 100% RH	
Dimensions / Weight		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 µS/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

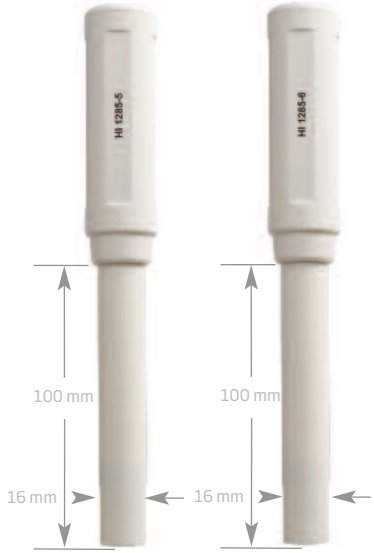
HI 50021P Check solution, (25) 20 mL sachets

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

HANNA® instruments

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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.