

pH/EC/TDS/Temperature Portable Meter

- **Water resistant**
- **On-screen tutorial messages for calibration**
- **Exclusive CAL CHECK™ feature**
Alerts users of calibration status (HI 9813-6 only)
- **BEPS**
(Battery Error Prevention 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 multiparameter probe**

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

This series of instruments feature an 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 pH 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.

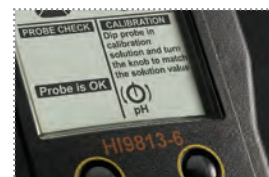


HI 9813-6 Exclusive CAL CHECK™ Feature

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.





- **Protective rubber boot**
The optional rubber boot helps protect your meter

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 fast response and reduced contamination. This combination makes these probes particularly suitable to be used in fertilizer solutions.

These probes can be used with instruments that use the same connector.

- **Built-in pH, amperometric EC and temperature sensor**
- **Specialized rugged probe**

Designed for harsh environments such as fertilizer solutions.

ORDERING INFORMATION

HI 9813-5 is supplied with HI 1285-5 multiparameter probe, HI 70007 pH 7.01 calibration solution sachet, HI 70442 1500 ppm (mg/L) calibration solution sachet, HI 70031 1413 $\mu\text{S}/\text{cm}$ calibration solution sachet, HI 700661 electrode cleaning solution sachets (2), battery, instructions and rugged carrying case.

HI 9813-6 is supplied with HI 1285-6 multiparameter probe, HI 70007 pH 7.01 calibration solution sachet, HI 70442 1500 ppm (mg/L) calibration solution sachet, HI 70031 1413 $\mu\text{S}/\text{cm}$ calibration solution sachet, 700521 electrode cleaning solution sachets (2), battery, instructions and rugged carrying case.

PROBES

HI 1285-5 Polypropylene body, pre-amplified multiparameter probe with internal temperature sensor, 8-pin DIN connector and 1 m (3.3') cable.

HI 1285-6 Polypropylene body, pre-amplified multiparameter probe with CAL CHECK™ compatibility, internal temperature sensor, 8-pin DIN connector and 1 m (3.3') cable

CALIBRATION SOLUTIONS

HI 7031L 1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL
HI 70442L 1500 ppm (mg/L) calibration 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, 20 mL sachets (25)
HI 50021P Check solution, 20 mL sachets (25)
HI 70300L Electrode storage solution, 500 mL

OTHER ACCESSORIES

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

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.	
	TDS	±2% F.S.	
	Temperature	±0.5°C	
TDS Conversion Factor		0.56 to 0.78 ppm = 1 $\mu\text{S}/\text{cm}$ (according to TDS 442 curve)	
pH Calibration		manual, one point (all parameters except temperature)	
Temperature Compensation		automatic 0 to 50°C (32 to 122°F) with $\beta=2\%/^{\circ}\text{C}$ (EC/TDS only)	
Probe	HI 1285-5 polypropylene body, pre-amplified multiparameter probe with internal temperature sensor, 8-pin DIN connector and 1 m (3.3') cable (included)		HI 1285-6 polypropylene body, pre-amplified multiparameter probe with CAL CHECK™ compatibility, internal temperature sensor, 8-pin DIN connector and 1 m (3.3') cable (included)
	Battery Type / Life		9V / approximately 150 hours of continuous use
Environment		0 to 50°C (32 to 122°F); RH max 100%	
Dimensions		145 x 80 x 36 mm (5.7 x 3.1 x 1.4")	
Weight		230 g (8.1 oz.)	

For a complete list of Solutions, see the end of pH Section 3 and Conductivity Section 6.