

## pH/EC/TDS/Temperature Portable Meters

- Water resistant
- On-screen tutorial messages for calibration
- 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
- BEPS  
(Battery Error Prevention System) alerts the user in the event that low battery power could adversely affect readings
- Battery % displayed on startup
- Fast response probe included

HI 9811-5 and HI 9812-5 are pH/EC/TDS waterproof meters designed for simplicity in taking pH,  $\mu\text{S}/\text{cm}$ , ppm (mg/L) and temperature measurements. Both the HI 9811-5 and HI 9812-5 are ideal for hydroponics, greenhouses, farming and ground water applications.

Due to the built-in temperature sensor, conductivity readings are automatically compensated for temperature changes. The temperature coefficient is fixed at 2%/°C.

No probe changes are required when switching your measured parameter between pH, conductivity and TDS. These multiparameter meters reduce the number of instruments required for daily water quality analysis.



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



### HI 1285-5 Probe

The specially engineered HI 1285-5 pH/EC/TDS and temperature probe utilizes a fiber junction and gel electrolyte which provide a fast response and reduced contamination. This combination makes the HI 1285-5 particularly designed to withstand harsh environments such as fertilizer solutions.

#### ORDERING INFORMATION

HI 9811-5 and HI 9812-5 are supplied with HI 1285-5 multiparameter probe, HI 70007 pH 7.01 calibration solution sachet, HI 70032 1382 ppm (mg/L) calibration solution sachet, HI 70031 1413 µS/cm calibration solution sachet, HI 700661 electrode cleaning solution sachets (2), battery, instructions and rugged carrying case.

#### ELECTRODES

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

#### CONDUCTIVITY & TDS CALIBRATION

##### SOLUTIONS

- HI 7031L** 1413 µS/cm calibration solution, 500 mL
- HI 7032L** 1382 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
- HI 70300L** Electrode storage solution, 500 mL
- HI 7061L** Electrode cleaning solution, 500 mL

#### OTHER ACCESSORIES

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

SPECIFICATIONS		HI 9811-5	HI 9812-5
Range	pH		0.0 to 14.0 pH
	EC	0 to 6000 µS/cm	0 to 1990 µS/cm
	TDS	0 to 3000 ppm (mg/L)	0 to 1990 ppm (mg/L)
	Temperature		0 to 60°C
Resolution	pH		0.1 pH
	EC		10 µS/cm
	TDS		10 ppm (mg/L)
	Temperature		0°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		0.5 ppm (mg/L) = 1 µS/cm	
Calibration		manual, one point (all parameters except temperature)	
Temperature Compensation		automatic from 0 to 50°C (32 to 122°F) with β = 2%/°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)	
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.

