

HI 9811-5 • HI 9812-5

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

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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
	TDS	0 to 3000 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 $\beta = 2\% / ^\circ\text{C}$ (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)	
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.