

HI1285-51 and HI1285-61 probes

HI9811-51 and HI9812-51 are supplied with the HI1285-51 pH/EC/TDS/temperature probe. The HI9810-61 is supplied with the HI1285-61 pH/EC/TDS/temperature probe with CAL Check. The pH, EC, TDS, and temperature sensor are housed in a single body that connects to the meter with a DIN connector.

- Amplified pH electrode
  - The pH electrode circuit has a built in amplifier that will reduce the effects of electrical noise on the high impedance pH measurement. Examples of sources of electrical noise include motors, ballasts, and pumps which are common in greenhouses.
- Amperometric EC/TDS sensor
  - The EC/TDS readings are performed by an amperometric sensor. An alternating voltage is applied to the sensor and the amount of current that passes between the two stainless steel pins is dependent upon the amount of salts (fertilizer) present. A greater amount of salt present results in an increase in conductance.
- Polypropylene body
  - The polypropylene body houses all the sensors in a single body design and is durable. The probe is gel filled for maintenance free operation. It does not have to be refilled periodically.
- 3 sensors in a single probe
- Gel filled maintenance free pH electrode

Specifications		HI9810-61	HI9811-51	HI9812-51
pH	Range	0.0 to 14.0 pH	0.0 to 14.0 pH	0.0 to 14.0 pH
	Resolution	0.1 pH	0.1 pH	0.1 pH
	Accuracy	±0.1 pH	±0.1 pH	±0.1 pH
EC	Range	0 to 6000 µS/cm	0 to 6000 µS/cm	0 to 1990 µS/cm
	Resolution	10 µS/cm	10 µS/cm	10 µS/cm
	Accuracy	±2% F.S.	±2% F.S.	±2% F.S.
TDS	Range	0 to 3000 ppm (mg/L)	0 to 3000 ppm (mg/L)	0 to 1990 ppm (mg/L)
	Resolution	10 ppm (mg/L)	10 ppm (mg/L)	10 ppm (mg/L)
	Accuracy	±2% F.S.	±2% F.S.	±2% F.S.
Temperature	Range	0 to 70°C	0 to 70°C	0 to 60°C
	Resolution	0.1°C	0.1°C	10°C
	Accuracy	±0.5°C	±0.5°C	±1°C
Additional Specifications	TDS Conversion Factor	0.5 ppm (mg/L) = 1 µS/cm	0.5 ppm (mg/L) = 1 µS/cm	
	pH Calibration	manual, 1-point through offset trimmer		
	EC/TDS Calibration	manual, 1-point through slope trimmer		
	EC/TDS Temperature Compensation	automatic from 0 to 70°C (32 to 158°F) with β = 2% /°C		
	Probe (included)	HI1285-61 polypropylene body, pre-amplified multiparameter probe with CAL Check, internal temperature sensor, 8-pin DIN connector and 1 m (3.3') cable	HI1285-51 polypropylene body, pre-amplified multiparameter probe with internal temperature sensor, 8-pin DIN connector and 1 m (3.3') cable	
	Battery Type / Life	9V / approximately 450 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.)		
Ordering Information		**HI9810-61** is supplied with HI1285-61 multiparameter probe with CAL Check, HI70007 pH 7.01 calibration solution sachet, HI70032 1382 ppm (mg/L) calibration solution sachet, HI70031 1413 µS/cm calibration solution sachet, HI700661 electrode cleaning solution sachets (2), 9v battery (1), instructions and rugged carrying case. **HI9811-51** and **HI9812-51** are supplied with HI1285-51 multiparameter probe, HI70007 pH 7.01 calibration solution sachet, HI70032 1382 ppm (mg/L) calibration solution sachet, HI70031 1413 µS/cm calibration solution sachet, HI700661 electrode cleaning solution sachets (2), 9v battery (1), instructions and rugged carrying case.		
Accessories		**HI710007** blue shockproof rubber boot		
		HI710008 orange shockproof rubber boot		
		HI7209811 spare carrying case for HI981X-X series		

pH solutions begin on page 2.164; EC and TDS solutions begin on page 5.26;
See page 7.58 for probe specifications