

Rugged pH/EC/TDS Meters for Growers



HI 9813-0 allows you to measure pH, EC (conductivity) and TDS with just one instrument! The meter has a pH measurement range that covers the full spectrum.

The EC range goes to 4.00 mS/cm. In the TDS range, both instruments use a conversion factor from 0.56 to 0.72 for fertilizer readings, to ensure your measurements fully conform to industry standards.

HI 9813-0 and HI 9813-5 measure TDS in the 0 to 1999 ppm range.

The specially engineered HI 1285-0 probe is interchangeable and the pH electrode utilizes a fiber junction and gel electrolyte which are particularly suitable when used in fertilizer solutions.

HI 9813-5 also performs temperature measurements, with the special probe HI 1285-5.

Specifications

	HI 9813	HI 9813-5
Range	pH 0.0 to 14.0 pH EC 0.00 to 4.00 mS/cm TDS 0 to 1999 ppm (mg/L)	0.0 to 14.0 pH 0.00 to 4.00 mS/cm 0 to 1999 ppm (mg/L)
Resolution	—	0.1 pH 0.01 mS/cm 1 ppm (mg/L)
Accuracy (@20°C/68°F)	—	±0.1 pH ±2% F.S. ±2% F.S.
Temperature	—	0.0 to 60.0°C 0.1°C ±0.5°C
TDS Conversion Factor	0.56 to 0.72 ppm = 1 µS/cm	
Calibration	manual at 1 point (all parameters except temperature)	
Temperature Compensation	automatic, 0 to 50°C (32 to 122°F) with β=2%/°C (EC/TDS only)	
Probe	HI 1285-0, pH/EC/TDS, 1 m cable (included)	HI 1285-5, pH/EC/TDS/T, 1 m cable (included)
Battery Type / Life	1 x 9V / approximately 150 hours of continuous use	
Environment	0 to 50°C (32 to 122°F); RH max 100%	
Dimensions / Weight	165 x 75 x 45 mm (6.9 x 2.9 x 1.8") / 180 g (6.3 oz.)	

Accessories

HI 1285-0	pH/EC/TDS probe, 1 m (3.3') cable	HI 7061L	Cleaning solution, 500 mL
HI 1285-5	pH/EC/TDS/T probe, 1 m (3.3') cable	HI 77100P	pH 7 and 1413 µS/cm calibration solution (20 mL, 10 pcs each)
HI 710015	Shockproof rubber boot, blue	HI 77200P	pH 7 and 1500 ppm calibration solution (20 mL, 10 pcs each)
HI 710016	Shockproof rubber boot, orange	HI 77400P	pH 4 and 7 calibration solution (20 mL, 5 pcs each)
HI 710022	Blue protective case		
HI 70300L	Electrode storage solution, 500 mL		

Ordering Information

HI 9813-0 is supplied complete with pH/EC/TDS probe HI 1285-0, 1 m cable, pH 7 calibration solution (1 x 20 mL), 1.41 mS/cm and 1500 ppm (1 each) calibration solution, cleaning solution (2 pcs.), blue protective case, battery and instructions. HI 9813-5 is supplied complete with pH/EC/TDS/T HI 1285-5 1 m cable, pH 7 calibration solution (1 x 20 mL), 1.41 mS/cm and 1500 ppm (1 each) calibration solution, cleaning solution (2 pcs.), blue protective case, battery and instructions.

For a complete range of calibration, cleaning and maintenance solutions, see section F. For probes, see section E. For other accessories, see section U.