

## Versatile Instruments for Water Conditioning



HI 9812 and HI 9812-5 are easy to use portable instruments for field measurement of pH, conductivity and TDS in water conditioning applications. These powerful instruments reduce your necessary tool set for field water quality analysis. HI 9812-0 measures pH from 0.0 to 14.0. This meter also checks conductivity and TDS from 0 to 1990 mg/L, ideal for the water conditioning field. Calibration has been simplified to one point for both pH and conductivity/TDS modes.

Both HI 9812-0 and HI 9812-5 are equipped with Automatic Temperature Compensation to remove the effects of temperature on your conductivity and TDS measurements. In addition, the BEPS (Battery Error Prevention System) will alert the user when low batteries could affect the readings.

HI 9812-0 uses HANNA instruments' 4-in-1 replaceable HI 1285-0 probe, while HI 9812-5 uses HI 1285-5. No probe changes are required when switching your measured parameter between pH, conductivity and TDS.

The specially engineered pH electrode also features a fiber junction and gel electrolyte for faster response and reduced contamination.

Finally, HI 9812-5 also measures temperature.



### Specifications

	HI 9812-0	HI 9812-5
Range	pH EC TDS Temperature	0.0 to 14.0 pH 0 to 1990 $\mu\text{S}/\text{cm}$ 0 to 1990 ppm (mg/L) 0 to 60°C
Resolution	pH EC TDS Temperature	0.1 pH 10 $\mu\text{S}/\text{cm}$ 10 ppm (mg/L) 1°C
Accuracy (@20°C/68°F)	pH EC TDS Temperature	$\pm 0.1$ pH $\pm 2\%$ F.S. $\pm 2\%$ F.S. $\pm 1^\circ\text{C}$
TDS Conversion Factor		0.5 ppm = 1 $\mu\text{S}/\text{cm}$
Calibration		manual at 1 point (all parameters, except temperature)
Temperature Compensation		automatic 0 to 50°C with $\beta = 2\%/^\circ\text{C}$ (EC/TDS only)
Probe	HI 1285-0, pH/EC/TDS, 1 m (3.3') cable (included)	HI 1285-5, pH/EC/TDS/T, 1 m (3.3') 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.)

### Ordering Information

HI 9812 is supplied complete with pH/EC/TDS probe, HI 1285-0 with 1 m (3.3') cable, pH 7 calibration solution (1 x 20 mL), 1382 ppm and 1413  $\mu\text{S}/\text{cm}$  calibration solutions (1 each), cleaning solution (2 pcs), blue protective case, battery and instructions.

HI 9812-5 is supplied complete with pH/EC/TDS/T HI 1285-5 with 1 m cable, pH 7 calibration solution, 1382 ppm and 1413  $\mu\text{S}/\text{cm}$  calibration solution (1 each), cleaning solution (2 pcs), blue protective case, battery and instructions.

### 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 $\mu\text{S}/\text{cm}$ calibration solution (20 mL, 10 pcs each)
HI 710015	Shockproof rubber boot, blue	HI 77300P	pH 7 and 1382 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		

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