



F.S.T. - Fail Safe Technology Water-Resistant pH/EC/TDS/T Combined Meter

A common pH electrode provides an output signal equal to 0 mV if immersed in a solution at pH 7. This output value can also be obtained in case of anomalies such as:

- A broken bulb in the pH electrode
- A short circuit in the cable or connector
- Magnetic force leakage in the cable or connector (for example, in case of excessive humidity)

In these conditions, an instrument will show a false reading of pH 7 on the display, so the user isn't able to identify that corrective measures are necessary. To avoid this problem, HANNA instruments® developed new F.S.T. technology for the new HI 9813-6.

With this special security system, if the meter encounters incorrect readings, the instrument doesn't display values close to pH 7, but close to pH 4, making the problem clear to the user.

To allow maximum confidence in your measurements, the meter is equipped with two LEDs and a "Check" button. When pressing this button, after immersing the electrode in the proper solution, HI 50021P (Cal-Check solution), one of the LED's will light up to indicate the status of the meter. The green LED ("OK") indicates the probe is working correctly, while the red LED ("C&C" Clean & Cal) indicates the electrode needs attention.



Specifications

		HI 9813-6
Range	pH	0.0 to 14.0 pH
	EC	0.00 to 4.00 mS/cm
	TDS	0 to 1999 ppm (mg/L)
	Temperature	0.0 to 60.0°C
Resolution	pH	0.1 pH
	EC	0.01 mS/cm
	TDS	1 ppm (mg/L)
	Temperature	0.1°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		0.56 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 $\beta = 2\%/^{\circ}\text{C}$ (EC/TDS only)
Probe		HI 1285-6, pH/EC/TDS/T, with Clean & Cal, 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 9813-6 is supplied complete with pH/EC/TDS/T HI 1285-6 probe with 1 m (3.3') cable, pH 7, 1.41 mS/cm and 1500 ppm calibration solution (20 mL each), cleaning solution (2 pcs), HI 50021 test solution (2 pcs), blue protective case, battery and instructions.

Accessories

HI 1285-6	pH/EC/TDS/T probe, with Clean & Cal, 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 50021P	Clean & Cal solution (25 x 20 mL)
HI 710022	Blue protective case		
HI 70300L	Electrode storage solution, 500 mL		
HI 7061L	Cleaning 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.