

HI 9835



Waterproof EC/TDS/°C/NaCl Meter for Laboratory and Field Applications

HI 9835 combines four important parameters you need for measuring conductivity. Now you can sample Electro-Conductivity (EC), Total Dissolved Solids (TDS), sodium chloride (NaCl) and temperature simultaneously.

HANNA instruments's probe design innovation uses 4 rings enhanced with platinum for greater stability while increasing the range of measurable concentrations and temperature.

You can choose between automatic and manual temperature compensation to match your operating requirements. In addition, you can also select from a range of TDS factors from 0.40 to 0.80 and a range of temperature coefficients 0.00 to 6.00% for greater consistency and reproducibility. The housing is completely waterproof and built to survive the harsh conditions of field use. For extended time studies, this meter can be connected to a 12 Vdc power supply (optional).

Specifications

HI 9835	EC	TDS	NaCl	Temperature
Range	0.00 to 29.99 $\mu\text{S}/\text{cm}$ 30.0 to 299.9 $\mu\text{S}/\text{cm}$ 300 to 2999 $\mu\text{S}/\text{cm}$ 3.00 to 29.99 mS/cm 30.0 to 200.0 mS/cm up to 500.0 mS/cm (actual EC)*	0.00 to 14.99 ppm (mg/L) 15.0 to 149.9 ppm (mg/L) 150 to 1499 ppm (mg/L) 1.50 to 14.99 g/L 15.0 to 100.0 g/L up to 400.0 g/L (actual TDS)*	0.0 to 400.0%	0.0 to 60.0°C
Resolution	0.01 $\mu\text{S}/\text{cm}$ 0.1 $\mu\text{S}/\text{cm}$ 1 $\mu\text{S}/\text{cm}$ 0.01 mS/cm 0.1 mS/cm	0.01 ppm (mg/L) 0.1 ppm (mg/L) 1 ppm (mg/L) 0.01 g/L 0.1 g/L	0.1%	0.1°C
Accuracy	$\pm 1\% \pm (0.05 \mu\text{S}/\text{cm} \text{ or } 1 \text{ digit})$	$\pm 1\% \pm (0.03 \text{ ppm or } 1 \text{ digit})$	$\pm 1\%$	$\pm 0.4^\circ\text{C}$
Calibration (EC)	automatic, 1 point, with 6 memorized values (84, 1413, 5000, 12880, 80000 and 111800 $\mu\text{S}/\text{cm}$)			
Calibration (NaCl)	1 point, with HI 7037 calibration solution (not included)			
Calibration (Temperature)	2-point, at 0 and 50°C (32 and 122°F)			
Temperature Compensation	automatic or manual, 0 to 60°C (32 to 140°F); can be disabled for measuring actual EC and TDS			
Temperature Coefficient	adjustable from 0.00 to 6.00%/°C (EC and TDS only)			
TDS Conversion Factor	adjustable from 0.40 to 0.80			
Probe	HI 76309, 4-ring probe, K=1 nominal, built-in temperature sensor (included)			
Power Supply	4 x 1.5V AA batteries (included) or 12 Vdc input; auto-off after 5 minutes of non-use (can be disabled)			
Environment	0 to 50°C (32 to 122°F); RH max 100%			
Dimensions/Weight	196 x 80 x 60 mm (7.7 x 3.1 x 2.4") / 500 g (1.1 lb.)			

* with temperature compensation function disabled

Accessories

HI 76309	4-ring stainless steel sensor conductivity probe	HI 7034L	80000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle
HI 76310	4-ring Pt sensor conductivity probe	HI 7035L	111800 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle
HI 7030L	12880 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 7037L	100% NaCl standard solution, 500 mL bottle
HI 7031L	1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 710005	115 Vac/12 Vdc power adapter
HI 7033L	84 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 710006	230 Vac/12 Vdc power adapter
HI 7039L	5000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 721317	Rugged carrying case

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

Ordering Information

HI 9835 is supplied complete with HI 76309 probe with stainless steel sensor and 1 m (3.3') cable, batteries, rugged carrying case and instructions.