



HI993301 • HI993302 EC/TDS and Temperature Monitors

- HOLD button to freeze readings on the display
- Waterproof
- Backlit, graphic LCD display

Waterproof and chemically resistant, the HI993301 and HI993302 monitors have been designed to meet the grower's need for equipment suited to the environments found in agricultural and hydroponics applications. At startup, the HI993301 and HI993302 perform a self-check to ensure proper working condition.

These indicators from Hanna have backlit LCDs and display instantaneous readings of both EC or TDS and temperature.

These instruments feature a stability indicator that prompts the user when to take the reading. For manual recording purposes, readings can be frozen on the LCD display by pressing the HOLD button.

Calibration and temperature compensation are automatic, while the EC/TDS conversion factor and temperature coefficient (β) are user-adjustable for application-specific measurements.

Specifications	HI993301	HI993302	
EC	Range	0 to 3999 $\mu\text{S}/\text{cm}$	0.00 to 20.00 mS/cm
	Resolution	1 $\mu\text{S}/\text{cm}$	0.01 mS/cm
	Accuracy	$\pm 2\%$ F.S.	$\pm 2\%$ F.S.
TDS	Range	0 to 2000 mg/L (ppm)	0.00 to 10.00 g/L (ppt)
	Resolution	1 mg/L (ppm)	0.01 g/L (ppt)
	Accuracy	$\pm 2\%$ F.S.	$\pm 2\%$ F.S.
Temperature	Range	0.0 to 60.0°C / 32.0 to 140.0°F	0.0 to 60.0°C / 32.0 to 140.0°F
	Resolution	0.1 °C (0.1°F)	0.1 °C (0.1°F)
	Accuracy	$\pm 0.5^\circ\text{C}$ ($\pm 1^\circ\text{F}$)	$\pm 0.5^\circ\text{C}$ ($\pm 1^\circ\text{F}$)
Additional Specifications	EC/TDS Calibration	automatic, one point at 1413 $\mu\text{S}/\text{cm}$ or 1382 mg/L (ppm)	automatic, one point at 12.88 mS/cm or 6.44 g/L (ppt)
	Probe	HI7630 conductivity probe with internal temperature sensor, 1/2" NPT pipe thread and 2 m (6.6') cable (fixed, included)	
	TDS Conversion Factor	adjustable from 0.45 to 1.00	
	Temperature Compensation	automatic with β adjustable from 0.0 to 2.4%/°C	
	Power Supply	12 VDC adapter (included)	
	Environment	0 to 50°C (32 to 122°F); RH max 95%	
	Dimensions	160 x 105 x 31 mm (6.2 x 4.1 x 1.2")	
Weight	190 g (6.7 oz.) - meter only		
Ordering Information	<p>HI993301-01 (115V) and HI993301-02 (230V) is supplied with HI7630 conductivity probe, HI70031 1413 $\mu\text{S}/\text{cm}$ calibration solution sachet, 12 VDC adapter and Instructions.</p> <p>HI993302-01 (115V) and HI993302-02 (230V) is supplied with HI7630 conductivity probe, HI70030 12.88 mS/cm calibration solution sachet, 12 VDC adapter and Instructions.</p>		

For a list of our EC and TDS solutions, see section 6