

## High-performance multiparameter bench meter

The HI 2550 is a two-channel logging micro-processor based meter for measuring pH, ORP, conductivity, total dissolved solids, % sodium chloride and temperature.

With the added benefit of a relative mV feature, this high specification bench meter is perfect for use in professional laboratories.

- pH readings are automatically temperature compensated using an external temperature probe. To ensure maximum precision, the meter offers up to five point calibration with seven available memorised buffers.
- Measurement of mV with a resolution of up to 0.1mV can be taken using ORP electrodes through the pH channel input. It also uses ISE electrodes on the mV scale.
- Conductivity measurements can be compensated relative to a selected reference temperature. The EC calibration mode allows the user to choose from among six recognised conductivity standards and perform single-point calibration. The most suitable EC and TDS range is automatically selected. The HI 2550 also offers the ability to set and lock the range manually.
- GLP capabilities facilitate storage and retrieval of all data for pH, relative mV, EC and NaCl calibration and sample measurement. Data on maintenance and status of the electrode is also recorded.
- The built-in logging function allows measurements to be stored and transferred to a PC through a USB interface. Users can manually log up to 200 records and interval log up to 500 records.



### Supplied with

- HI 1131B pH electrode
- HI 76310 EC/TDS probe
- HI 7662 temperature probe
- HI 76404N electrode holder
- Starter pack of buffer and cleaning solutions
- 12 Vdc adapter
- Working instructions

### Solutions

Hanna manufactures a wide range of solutions for the care, cleaning and calibration of your electrodes.

### Practical wide-based bench meter with two input channels:

- Measuring up to seven parameters
- Simultaneous measurement of pH, EC and temperature using separate sensors (supplied)
- Offering extra wide temperature range

### One electrode holder included as standard

### pH and EC electrodes and temperature probe all supplied as standard

### Wide screen LCD and rubberised keyboard with intuitive buttons:

- Up to five point calibration with seven standard and two custom buffers
- EC/ TDS autoranging, manual ranging and range lock
- HOLD button freezes readings on display
- Automatic temperature compensation for pH & EC
- Log on demand of up to 200 readings with USB connection for data download
- Interval logging of up to 500 samples



Model shown with 2 electrode holders for illustrative purposes only.

## Specifications

Product Code	HI 2550	
Range	pH/ORP	-2.00 to 16.00 pH; -2.000 to 16.000 pH / $\pm 999.9$ mV (ISE & ORP); $\pm 2000$ mV (ISE & ORP)
	EC	0.00 to 29.99 $\mu\text{S}/\text{cm}$ ; 30.0 to 299.9 $\mu\text{S}/\text{cm}$ ; 300 to 2999 mS/cm 3.00 to 29.99 mS/cm; 30.0 to 200.0 mS/cm; up to 500.0 mS/cm actual EC
	TDS	0.00 to 14.99 ppm; 15.0 to 149.9 ppm; 150 to 1499 ppm; 1.50 to 14.99 g/L; 15.0 to 100.0 g/L; up to 400.0 g/L actual TDS
	NaCl	0.0 to 400.0% NaCl
	Temperature	20.0 to 120°C (pH, EC range)
Resolution	pH/ORP	0.01 pH; 0.001 pH / 0.1 mV $\pm 1000.0$ mV; 1 mV ( $\pm 2000$ mV)
	EC	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
	TDS	0.01 ppm; 0.1 ppm; 1 ppm; 0.01 g/L; 0.1 g/L
	NaCl	0.1% NaCl
	Temperature	0.1°C
Accuracy (@20°C)	pH/ORP	$\pm 0.01$ pH; $\pm 0.002$ pH / $\pm 0.2$ mV ( $\pm 999.9$ mV); $\pm 1$ mV ( $\pm 2000$ mV)
	EC	$\pm 1\%$ of reading $\pm (0.05 \mu\text{S}/\text{cm}$ or 1 digit)
	TDS	$\pm 1\%$ of reading $\pm (0.03$ ppm or 1 digit)
	NaCl	$\pm 1\%$ of reading
	Temperature	$\pm 0.4^\circ\text{C}$ (excluding probe error)
Relative mV Offset Range	$\pm 2000$ mV	
Calibration	pH	1, 2, 3, 4, 5 point calibration, 7 standards, (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45) & 2 custom buffers
	EC	automatic, 1 point, with 6 memorised values (84.0 & 1413 $\mu\text{S}/\text{cm}$ ; 5.00, 12.88, 80.0 & 111.8 mS/cm)
	NaCl	automatic, 1 point, with HI-7037L calibration solution
Temperature Compensation	manual or automatic, $-20.0$ to $+120.0^\circ\text{C}$ for pH; $-20.0$ to $+120.0^\circ\text{C}$ for EC; (can be disabled for measuring actual EC and TDS values)	
Temperature Coefficient	0.00 to 6.00%/°C (EC and TDS only); default value: 1.90%/°C	
TDS Conversion Factor	0.40 to 0.80; default value: 0.50	
Electrodes and probes	HI 11318 pH electrode included, HI 76310 EC probe included, HI 7662 temperature probe included	
PC Connection	opto-isolated USB	
Data Logging	200 samples	
Log Interval Feature	500 records stability logging 5, 10, 30 seconds 1, 2, 5, 10, 15, 30, 60, 120, 180 minutes	
Power Supply	12 Vdc adapter (included)	
Environment	0 to 50°C; RH max 95%	
Dimensions / Weight	232 x 222 x 109 mm / 1.3 kg kit	



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