

HI 2550

pH/EC/TDS/NaCl Benchtop Meter

- **New bench top design**
- **Extra wide LCD** (6.25" x 1.5")
- **Simultaneous display of primary reading and temperature**
- **On-screen calibration guides**
- **Up to 5 point pH calibration with 7 standard and 2 custom buffers**
- **Autoranging (EC/TDS)**
- **HOLD to freeze readings on the display**
- **Automatic Temperature Compensation (pH & EC)**
- **Manually log up to 200 records and interval log up to 500 records**
- **USB**
- **No interference**

The pH and conductivity circuits have been electrically separated, so that it is not necessary for the two probes to be simultaneously immersed in the same solution. The conductivity probe will not interfere with your pH measurements and the response of the pH electrode is immediately stable.

- **GLP (Good Laboratory Practice)**

GLP is a set of functions that allows storage and retrieval of data regarding the maintenance and status of the electrode. All data regarding pH, rel mV, EC and NaCl is stored for the user to review when necessary.

- **Calibration expiration reminder**

For pH calibration, this instrument allows the user to set the number of days before the next required pH calibration. This value can be set from 1 to 7 days, or disabled.

- **Calibration data**

After a successful calibration, last calibration data is stored automatically.

HI 2550 is a high performance precision instrument that measures a multitude of parameters. With this single laboratory bench meter you can measure pH, ORP, conductivity (EC), TDS, NaCl percentage and temperature.

Utilizing an external temperature probe, pH readings are automatically temperature compensated. To ensure a higher level of precision, pH calibrations are customizable - up to 3 calibration points, chosen from the 5 available memorized buffers. EC measurements can be compensated relative to a selected reference temperature. The EC calibration mode allows you to choose from among 6 recognized conductivity standards and perform a single-point calibration. The most suitable EC and TDS range for your application is automatically selected.

With a built-in logging function, measurements are stored in non volatile memory, and can be downloaded to a PC through the USB port.

SPECIFICATIONS		HI 2550
Range	pH	-2.0 to 16.0 pH; -2.00 to 16.00 pH; -2.000 to 16.000 pH
	ISE & ORP	±999.9 mV (ISE & ORP); ±2000 mV (ISE & ORP)
	EC	0.00 to 29.99 µS/cm; 30.0 to 299.9 µS/cm; 300 to 2999 µS/cm; 3.00 to 29.99 mS/cm; 30.0 to 200.0 mS/cm; up to 500.0 mS/cm uncompensated* conductivity
	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 uncompensated* TDS (with 0.80 factor)
	NaCl	0.0 to 400.0% NaCl
	Temperature	-20.0 to 120.0 °C (pH, EC range)
Resolution	pH	0.1 pH; 0.01 pH; 0.001 pH
	ISE & ORP	0.1 mV (±999.9 mV); 1 mV (±2000 mV)
	EC	0.01 µS/cm; 0.1 µS/cm; 1 µS/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/68°F	pH	±0.01 pH; ±0.002 pH
	ISE & ORP	±0.2 mV (±999.9 mV); ±1 mV (±2000 mV)
	EC	±1 % reading (±0.05 µS/cm or 1 digit, whichever greater)
	TDS	±1% of reading (±0.03 ppm or 1 digit, whichever greater)
	NaCl	±1% of reading
		Temperature ±0.4 °C (excluding probe error)
Relative mV Offset		±2000 mV
pH Calibration		1, 2, 3, 4 or 5 point calibration, 7 standard buffers available (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45), and 2 custom buffers
EC Calibration		1 point slope calibration; 6 buffers available: 84.0, 1413 µS/cm; 5.00, 12.88, 80.0, 111.8 mS/cm; 1 point offset: 0.00 µS/cm
NaCl Calibration		1 point with HI 7037L buffer (optional)
Temperature Compensation		manual or automatic from: -20.0 to 120.0 °C (pH range) -20.0 to 120.0 °C (EC range) (can be disabled on conductivity range to measure actual conductivity)
Cond. Temp. Coefficient		0.00 to 6.00 %/°C (for EC and TDS only) default value is 1.90 %/°C
TDS Factor		0.40 to 0.80 (default value is 0.50)
pH Probe		HI 1131B glass body pH electrode with BNC connector and 1 m (3.3') cable (included)
Conductivity Probe		HI 76310 platinum 4-ring conductivity/TDS probe with 1 m (3.3') cable (included)
Temperature Probe		HI 7662 temperature probe with 1 m (3.3') cable (included)
Input Impedance		10 ¹² ohms
PC Connectivity		opto-isolated USB
Log On Demand		200 records
Log Interval Feature		500 records; stability logging ("StAb"), 5, 10, 30 sec and 1, 2, 5, 10, 15, 30, 60, 120, 180 min
Power Supply		12 VDC
Environment		0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions		235 x 218 x 108 mm (9.2 x 8.5 x 4.2")
Weight		1.3 Kg (2.9 lb); kit with holder 2.1 Kg (4.6 lb.)

(*) Uncompensated conductivity (or TDS) is the conductivity (or TDS) value without temperature compensation.



HI 76404
Electrode Holder

ORDERING INFORMATION

HI 2550 is supplied with HI 1131B pH electrode, HI 76310 conductivity/TDS probe, HI 7662 temperature probe, HI 76404N electrode holder, HI 70004 pH 4.01 buffer solution sachet, HI 70007 pH 7.01 buffer solution sachet, HI 70715 electrolyte solution (30 mL), 12 VDC adapter and instruction manual.

ELECTRODES

HI 1131B	Glass body pH electrode with BNC connector and 1 m (3.3') cable
HI 76310	Platinum, 4-ring conductivity/TDS probe with 1 m (3.3') cable
HI 7662	Stainless steel temperature probe with 1 m (3.3') cable

SOLUTIONS

HI 5004L	pH 4.01 buffer solution, 500 mL
HI 5007L	pH 7.01 buffer solution, 500 mL
HI 5010L	pH 10.01 buffer solution, 500 mL
HI 7061L	Electrode cleaning solution, 500 mL
HI 70300L	Electrode storage solution, 500 mL
HI 7030L	12880 µS/cm calibration solution, 500 mL
HI 7031L	1413 µS/cm calibration solution, 500 mL
HI 7033L	84 µS/cm calibration solution, 500 mL
HI 7034L	80000 µS/cm calibration solution, 500 mL
HI 7035L	111800 µS/cm calibration solution, 500 mL
HI 7037L	Salinity standard solution, 500 mL

ACCESSORIES

HI 76404	Electrode holder
HI 92000	Windows® compatible software
HI 920010	RS232 cable for PC connection