

HI 255 EC/TDS/NaCl and pH/mV Meter

for Laboratories

6 in 1 Bench Meter!

The HANNA HI 255 is a logging, microprocessor-based pH, ORP, Conductivity (EC), TDS, NaCl and temperature bench meter. A relative mV feature is also provided.

The autoranging feature of the EC and TDS functions automatically sets the instrument to the scale with the highest possible resolution.

An alarm time-out is available to alert the user that too much time has elapsed since last pH calibration.

- *Autoranging*
- *Good Laboratory Practice*
- *Logging function*
- *PC interface*



ORDERING INFORMATION

HI 255-01 (115V) and **HI 255-02** (230V) are supplied with HI 1131B glass body, combination pH electrode, HI 76310 conductivity /TDS probe, HI 7662 temperature probe, HI 76404 electrode holder, pH 4 and pH 7 buffer solutions, HI 7071S electrolyte solution, 12 Vdc power adapter and instructions.

ELECTRODES

- HI 1131B** Refillable pH electrode with BNC connector and 1m (3.3') cable
- HI 76310** 4-ring platinum sensor conductivity probe
- HI 7662** Temperature probe

SOLUTIONS

- HI 5004** pH 4.01 buffer solution, 500 mL
- HI 5007** pH 7.01 buffer solution, 500 mL
- HI 5010** pH 10.01 buffer solution, 500 mL
- HI 54710** pH 4.01, pH 7.01 and pH 10.01 buffer solution, 500 mL ea.
- HI 7030L** 12880 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL
- HI 7031L** 1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL
- HI 7033L** 84 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL
- HI 7034L** 80000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL
- HI 7035L** 111800 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL
- HI 7037L** Salinity solution, 500 mL
- HI 70300L** Electrode storage solution, 500 mL
- HI 7061L** Electrode cleaning solution, 500 mL

ACCESSORIES

- HI 76404** Electrode holder
- HI 710005** 115 Vac/12 Vdc pwr adapter (US)
- HI 710006** 230 Vac/12 Vdc pwr adapter (EU)
- HI 92000** Windows® compatible software
- HI 920010** Serial cable for PC connection
- HI 190M** Magnetic stirrer with ABS plastic cover, max 1000 rpm, Speedsafe™
- HI 200M** Magnetic stirrer with AISI stainless steel cover, max 1000 rpm, Speedsafe™

SPECIFICATIONS		HI 255
Range	pH/ORP	-2.00 to 16.00 pH; -2.000 to 16.000 pH / ± 699.9 mV; ± 2000 mV
	EC	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*
	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	-10 to 120.0 °C (pH); 0.0°C to 60.0°C (EC)
Resolution	pH/ORP	0.01 pH; 0.001 pH/ 0.1 mV (± 699.9 mV); 1 mV (± 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	± 0.01 pH; ± 0.002 pH/ ± 0.2 mV (± 699.9 mV); ± 1 mV (± 2000 mV)
	EC	$\pm 1\%$ of reading $\pm (0.05 \mu\text{S}/\text{cm}$ or 1 digit)
	TDS	$\pm 1\%$ of reading $\pm (0.03 \text{ ppm}$ or 1 digit)
	NaCl	$\pm 1\%$ of reading
	Temperature	$\pm 0.4^\circ\text{C}$ (excluding probe error)
Relative mV Offset		± 2000 mV
Calibration (pH)		automatic, at 1, 2 or 3 points, with 5 memorized buffers (pH 4.01, 6.86, 7.01, 9.18, 10.01)
Calibration (EC)		automatic, 1 point, with 6 memorized values (84.0 and 1413 $\mu\text{S}/\text{cm}$; 5.00, 12.88, 80.0 and 111.8 mS/cm)
Calibration (NaCl)		automatic, 1 point, with HI 7037L calibration solution
Temperature Compensation		manual or automatic, -10.0 to 120.0°C (14 to 248°F) for pH; 0.0 to 60.0°C (32 to 140°F) 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
pH Electrode		HI 1131B (included)
EC Probe		HI 76310 (included)
Temperature Probe		HI 7662 (included)
PC Connection		RS232 opto-isolated serial port
Data Logging		200 samples
Input Impedance		10^{12} Ohm
Power Supply		12 Vdc adapter (included)
Environment		0 to 50°C (32 to 122°F); RH max 95%
Dimensions / Weight		240 x 182 x 74 mm (9.4 x 7.2 x 2.9") / 1.1 kg (2.4 lbs.)

* with temperature compensation function disabled