

Panel Mounted pH Analog Indicator

with Self-diagnostic Test

Designed for Process Control Monitoring

HI 8510 has been redesigned with extended pH and temperature compensation ranges as well as BNC, amplified probe input and input from transmitter all in one instrument.

These instruments are ideal for monitoring pH in process control. They can provide accurate pH measurements and display values on the easy-to-read LCD.

Designed for easy and fast installation, the HI 8510 is provided with membrane keypads on the front panel, large display and autodiagnostic functions to check pH electrode and instrument status. These instruments also provide $\pm 5V$ power output and input terminals for amplified electrodes.

The front panel is protected behind a transparent splash-proof cover.

Inputs allowed:

- 1) BNC Connector
- 2) Direct wire connection with amplified probe (supports HI 1006 series probes)
- 3) 4-20 mA from a transmitter

- Broader pH range: -2.00 to 16.00 pH
- Extended temperature compensation range: -20 to 100°C
- Supports potential matching pin connection
- Both 4-20 and 0-20 mA output
- $\pm 5V$ outputs for amplified electrodes
- Backlit LCD
- Auto-diagnostic tests for pH electrode and instrument status
- Operational mode LED indicators
- Designed for easy installation
- Transparent splash-proof cover included



SPECIFICATIONS

HI 8510

Range	-2.00 to 16.00 pH
Resolution	0.01 pH
Accuracy (@20°C/68°F)	± 0.02 pH (0 to 100 °C) ± 0.05 pH (-20 to 0 °C) $\pm 0.5\%$ (input transmitter)
Input	High impedance 10^{12} Ohm; Reference and Matching pin inputs are available; 4-20 mA
Power Output	± 5 Vcc; 150 mA max load for amplified electrodes
Calibration	Offset: ± 2 pH with OFFSET trimmer; Slope: 80 to 110% with SLOPE trimmer
Temperature Compensation	fixed or automatic with Pt100, from -20 to 100°C (-4 to 212°F)
Recorder Output	0-20 mA or 4-20 mA (isolated)
Backlight	Continuous ON
Power Supply	115 Vac $\pm 10\%$ or 230 Vac $\pm 10\%$; 50/60 Hz
Enclosure	Black anodized aluminium body; front panel with flame retardant ABS; transparent splash-proof front cover
Environment	-10 to 50°C (14 to 122°F); RH max 95% non-condensing
Panel Cutout	141 x 69 mm (5.6 x 2.7")
Weight	1 kg (2.2 lb.)

ORDERING INFORMATION

The HI 8510 is supplied complete with mounting brackets and instructions.

SOLUTIONS

- HI 7004/1L pH 4.01 buffer solution, 1 L
 HI 7007/1L pH 7.01 buffer solution, 1 L
 HI 7010/1L pH 10.01 buffer solution, 1 L

ACCESSORIES

- HI 8427 pH / ORP electrode simulator
 HI 931001 pH / ORP electrode simulator with display HI 8510T only
 HI 8614-01 pH transmitter
 HI 8614L-01 pH transmitter with display