

HI8510

# pH Analog Indicator

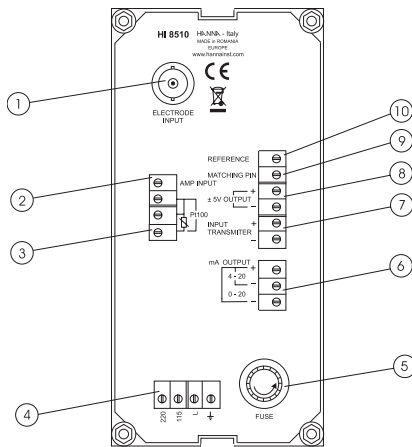
with Self Diagnostic Test

- ATC
  - Automatic temperature compensation Backlight
- Backlit, LCD display

HI8510 is ideal for monitoring pH in process control. It can provide highly accurate pH measurements and display values on the easy to read LCD. BNC input, amplified probe input and input from transmitter are supported.

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

A removable, transparent splash-proof cover protects the front panel.



1. BNC socket for pH electrode
2. Input from amplified electrode
3. Connections for Pt100 temperature sensor
4. Power supply terminals
5. Fuse holder
6. Recorder output terminals
7. Connection to the transmitter
8. Power for amplified electrode
9. Connection for matching pin
10. Connection for reference electrode

## Specifications HI8510

Range	0.00 to 14.00 pH
Resolution	0.01 pH
Accuracy (@25°C/77°F)	$\pm 0.02$ pH (0 to 100 °C); $\pm 0.05$ 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	$\pm 5$ Vcc; 150 mA max load for amplified electrodes
Calibration	offset: $\pm 2$ 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	flame retardant ABS body and front panel; 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 **HI8510** is supplied complete with mounting brackets and instructions.

## Accessories

<b>HI8427</b>	pH / ORP electrode simulator
<b>HI931001</b>	pH / ORP electrode simulator with display
<b>HI8614N</b>	pH transmitter
<b>HI8614LN</b>	pH transmitter with display