HI8614LN with LCD

HI8614N • HI8614LN

pH Transmitters

with 4-20 mA Galvanically Isolated Output

- ATC
  - Automatic temperature compensation
- Waterpoof
  - Water resistant
- Backlight
  - Backlit, LCD display

The HI8614N is a water-resistant pH transmitter is designed to be used with a standard high impedance pH probe with BNC connector. The signal is then processed by a special high-impedance amplifier, which transmits an output current directly proportional to the input signal but independent of changes in load or cable capacitance.

Calibration is performed by the adjustment of two independent trimmers – slope and offset.

Temperature compensation is performed by the transmitter's ATC (Automatic Temperature Compensation) circuitry when measurements are taken with a temperature probe attached; if ATC is not required, it is also possible to substitute a fixed resistor for the temperature probe. The transmitter can be connected to Hanna controller HI8510, HI8710 or HI8711, recorders, computers or any data monitoring device that accepts 4 to 20 mA input.

HI8614"L" versions allow easy verification and monitoring of measured values and is easier to calibrate and maintain.

Specifications	HI8614N • HI8614LN
Range	0.00 to 14.00 pH; 4–20 mA
Resolution (for "L" models)	0.01 pH; 0.01 mA
Accuracy (@20°C/68°F)	±0.02 pH; ±0.02 mA
Calibration	offset: ±2 pH; ±2.2 mA; slope: 86 to 116%; ±0.5 mA
Temperature Compensation	fixed or automatic from 0 to 100°C (32 to 212°F) with HI76608 probe
Input Impedance	10^{12} Ohm
Recorder Output	4-20 mA (isolated)
Protection	IP65
Power Supply	HI8614N: 18-30 VDC; HI8614LN: 20-36 VDC
LCD display	only for HI8614LN
Load	max 500 Ohm
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	165 x 110 x 71 mm (6.5 x 4.3 x 2.8")
Weight	1 kg (2.2 lb.)

Ordering Information

HI8614N and **HI8614LN** (with display) is supplied with instructions.

For complete list of pH calibration and electrode solutions, see section 3

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HANNA instruments