

HI 8614N • HI 8614LN

pH Transmitters with 4-20 mA Galvanically Isolated Output

- Water resistant
- Loop powered
- Automatic Temperature Compensation
- Available with or without LCD

The HI 8614N 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 HI 8510, HI 8710 or HI 8711, recorders, computers or any data monitoring device that accepts 4 to 20 mA input.

HI 8614"L" versions allow easy verification and monitoring of measured values and is easier to calibrate and maintain.



HI 8614LN with LCD



HI 8614N without LCD

ORDERING INFORMATION

HI 8614N and HI 8614LN (with display) is supplied with instructions.

ELECTRODES

HI 76608 Temperature probe with 3 m (9.9') cable

SOLUTIONS

HI 7004L pH 4.01 buffer solution, 500 mL
 HI 7007L pH 7.01 buffer solution, 500 mL
 HI 7010L pH 10.01 buffer solution, 500 mL

ACCESSORIES

HI 6054B In-line electrode holder
 HI 931002 4-20 mA simulator
 HI 931001 pH / ORP electrode simulator with display

SPECIFICATIONS	HI 8614N	HI 8614LN
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 HI 76608 probe	
Input Impedance	10 ¹² Ohm	
Recorder Output	4-20 mA (isolated)	
Protection	IP65	
Power Supply	18-30 VDC	20-36 VDC
LCD display	-	yes
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.)	

For a complete list of Solutions, see the end of pH Section 3.