



## Water Resistance

The HI 8614 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 adjustment of two independent trimmers—slope and offset.

Temperature compensation is performed by the transmitter's ATC 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.

Four versions are available, HI 8614 without an LCD, and the LCD version, HI 8614"L". HI 8614L allows easy verification and monitoring of measured values, and is easier to calibrate and maintain.

The HI 8614-01 and HI 8614L-01 are the same as HI 8614 and HI8614L respectively, but with a range extension in order to be connected to the new design of HI 8510, HI 8710 and HI 8711 controllers.

- Water resistant
- Loop Powered
- ATC
- Available with or without LCD



HI 8614 without LCD



"-01" models feature an extended range in order to be connected to the new design of our HI 8510, HI 8710 and HI 8711 controllers.

SPECIFICATIONS	HI 8614	HI 8614L	HI 8614-01	HI 8614L-01
Range	0.00 to 14.00 pH; 4-20 mA		-2.00 to 16.00 pH; 4-20 mA	
Resolution (for "L" models)	0.01 pH			
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		fixed or automatic from -20 to 100°C (-4 to 212°F) with HI 76608 probe	
Input Impedance	10 <sup>12</sup> Ohm			
Recorder Output	4-20 mA (isolated)			
Protection	IP 65			
Power Supply	18-30 Vdc	20-36 Vdc	18-30 Vdc	20-36 Vdc
Load	max 500 Ohm			
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing			
Dimensions	165 x 110 x 90 mm (6.5 x 4.3 x 3.5")			
Weight	1 kg (2.2 lb.)			

### ORDERING INFORMATION

**HI 8614** and **HI 8614-01** is supplied with instructions.

**HI 8614L** and **HI 8614L-01** (with display) is supplied complete 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** Electrode holder for in-line applications
- HI 931002** 4-20 mA simulator
- HI 931001** pH / ORP electrode simulator with display