



HI98143

pH and EC Transmitter

with Galvanic Isolated Output

- ATC
 - Automatic temperature compensation Connectivity
- PC compatible

The HI98143 series is designed to accept signals directly from a pH electrode and a conductivity probe at the same time.

Direct connection of the probes to the transmitter assure a positive electrical connection with no signal loss. This transmitter is ideal for remote process control applications.

Four models are available, transmitting a 0-1 V, 0-4 V or 4-20 mA signal. The output signals are proportional to the input signals but independent of changes in load or cable capacitance. Compensation for the effects of temperature for EC measurements are performed by the transmitters' Automatic Temperature Compensation circuitry.

The transmitter can be connected to any pH or conductivity controller, recorder, PC or any data monitoring device that accepts 0 to 1 V, 0 to 4 V or 4 to 20 mA input. HI98143 is an ideal tool for applications that require the monitoring of both pH and conductivity at the same time.

Specifications	HI98143-01 • HI98143-04 • HI98143-20 • HI98143-22
Range	0 to 14 pH; 0 to 10 mS/cm
Accuracy (@25°C/77°F)	±0.5% f.s. pH; ±2% f.s. EC
Calibration	manual, 2 point, through trimmers: pH: offset and slope trimmers; EC: 0 and 5 mS/cm trimmers
EC Temp. Compensation	automatic, 0 to 60°C (32 to 132°F) with $\beta=2\%/^{\circ}\text{C}$
pH Electrode	HI1001 pH electrode (suggested, not included), HI1283 matching pin (not included)
EC Probe	HI3001 (not included) with cell constant 2.1
Casing	IP54
Power Supply	12-24 VDC
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions	160 x 105 x 31 mm (6.3 x 4.1 x 1.2")
Weight	280 g (9.9 oz.)
Ordering Information	<p>All HI98143 models are supplied with instructions.</p> <p>Choose your configuration</p> <p>HI98143-01 pH/EC transmitter with 0-1 V isolated output</p> <p>HI98143-04 pH/EC transmitter with 0-4 V isolated output</p> <p>HI98143-20 pH/EC transmitter with 4-20 mA isolated output</p> <p>HI98143-22 pH/EC transmitter with 4-20 mA isolated output (specific for HI8000 controllers)</p>