

Conductivity Transmitters

to use with Four-ring Probe

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

HI8936 is a conductivity transmitter that utilizes a four-ring potentiometric probe. This probe is virtually immune to contamination by unclean solutions. This allows the transmitter to operate at peak performance at all times.

Temperature effects are compensated for by utilizing both the built-in temperature sensor on the probe and the transmitter's ATC circuitry with a d of 2%/°C.

Direct connection of the probe to the transmitter assures a positive electrical connection with no signal loss over long distances.

HI8936 "L" versions allow easy verification and monitoring of measured values and is easier to calibrate and maintain.

The HI8936 series requires external power to the 4-20 mA current loop.

The HI8936 series should be used in conjunction with the HI7635 in-line probe or HI7638 platinum probe (see Process Electrodes and Probes).



AN, BN, CN, and DN without LCD



ALN, BLN, CLN, and DLN with LCD

Specifications	HI8936AN HI8936ALN	HI8936BN HI8936BLN	HI8936CN HI8936CLN	HI8936DN HI8936DLN
Range	0.0 to 199.9 mS/cm	0.00 to 19.99 mS/cm	0 to 1999 µS/cm	0.0 to 199.9 µS/cm
Resolution	0.1 mS/cm	0.01 mS/cm	1 µS/cm	0.1 µS/cm
Accuracy	±2% f.s. (excluding probe error)			
Calibration	manual, two point, with offset and slope trimmers			
Temperature Compensation	fixed or automatic with NTC sensor from 0 to 50°C (32 to 122°F) with $\beta=2\%/^{\circ}\text{C}$			
Conductivity Probe	HI7635 for in-line applications (not included)			
Recorder Output	4-20 mA, not isolated, max 500 Ohm			
Protection	IP65			
Power Supply	without LCD: 12-30 VDC; with LCD: 17-36 VDC			
LCD Display	HI8936AN: no HI8936ALN: yes	HI8936BN: no HI8936BLN: yes	HI8936CN: no HI8936CLN: yes	HI8936DN: no HI8936DLN: yes
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	All HI8936 models are supplied complete with instructions.			