



ALN, BLN, CLN, and DLN with LCD

## HI8936 Series

## 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).*

| Specifications           | HI8936AN<br>HI8936ALN   | HI8936BN<br>HI8936BLN          | HI8936CN<br>HI8936CLN          | HI8936DN<br>HI8936DLN          |
|--------------------------|---|--------------------------------|--------------------------------|--------------------------------|
| Range                    | 0.0 to 199.9 mS/cm  | 0.00 to 19.99 mS/cm            | 0 to 1999 $\mu$ S/cm           | 0.0 to 199.9 $\mu$ S/cm        |
| Resolution               | 0.1 mS/cm   | 0.01 mS/cm                     | 1 $\mu$ S/cm                   | 0.1 $\mu$ S/cm                 |
| Accuracy                 | $\pm$ 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%/°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<br>HI8936ALN: yes  | HI8936BN: no<br>HI8936BLN: yes | HI8936CN: no<br>HI8936CLN: yes | HI8936DN: no<br>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 <b>HI8936</b> models are supplied complete with instructions.                   |                                |                                |                                |



AN, BN, CN, and DN without LCD