

HI 8931A • HI 8931B • HI 8931C • HI 8931D

Conductivity Analog Controller

with Input from Probe or Transmitter



Using HI 8931 series in conjunction with our HI 8936 transmitters assures strong, interference-free signals up to 1000'

SPECIFICATIONS	HI 8931A	HI 8931B	HI 8931C	HI 8931D
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 (@20°C/68°F)	±2% F.S. (excluding probe error)			
Input from Transmitter	HI 8936A / AL	HI 8936B / BL	HI 8936C / CL	HI 8936D / DL
Temperature Compensation	Automatic, 0 to 60°C with $\beta=2\%/^{\circ}\text{C}$; See also transmitter HI 8936			
Inputs	DIN (probe) or 4-20 mA (transmitter)			
Conductivity Probe	HI 7635 for in-line applications or HI 7638 for tank (not included)			
Calibration	Manual, 2 point, through offset and slope trimmers			
Recorder Output	0 to 20 mA or 4 to 20 mA (isolated)			
Setpoint and Alarm Relay	1, Isolated, 2A, Max. 240V, resistive load, 1,000,000 strokes			
Set point 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
Alarm Range	0.0 mS and 100.0 mS	0.00 mS and 10.00 mS	0 µS and 1000 µS	0.0 µS and 100.0 µS
Dosing Control	OFF/AUTO/ON with selection switch			
Over Dosing Control	Adjustable, from 5 min to 60 min with knob or Disable by wire strap - on rear panel			
Backlight	Continuous ON			
Power Supply	115 Vac ±10% or 230 Vac ±10%; 50/60 Hz			
Enclosure	Black anodized aluminum body; front panel with flame retardant ABS; transparent splash-proof front cover			
Environment	-10 to 50°C (14 to 122°F); RH max 95% non-condensing			
Panel Cutout	141 x 69 mm (5.6 x 2.7")			
Weight	1 kg (2.2 lbs.)			

ORDERING INFORMATION

The **HI 8931** series is supplied complete with mounting brackets and instructions.

SOLUTIONS

HI 7033L	84 µS/cm cal. solution, 500 mL
HI 7031L	1413 µS/cm cal. solution, 500 mL
HI 7030L	12880 µS/cm cal. solution, 500 mL
HI 7034L	80000 µS/cm cal. solution, 500 mL
HI 7035L	111800 µS/cm cal. solution, 500 mL
HI 7039L	5000 µS/cm cal. solution, 500 mL

PROBES

HI 3001D Conductivity probe for in-line or submersion mounting

Other probes available upon request

ACCESSORIES

HI 71326	Calibration screwdrivers (20 pcs)
HI 779/P	6-wire cable (100 m/330' roll)
HI 8733	Portable conductivity meter with ATC

4 Models to Choose From

HI 8931 is a panel-mounted conductivity controller designed for simplicity of use in a wide range of industrial process applications.

The instruments are designed with a standard DIN panel mount with membrane keypads and large LCD with backlight on the front, and provide a series of auto-diagnostic functions.

Probes, power supply, contacts and recorders are connected on the rear panel through screw terminals.

Using HI 8931 in conjunction with a 4-20 mA output transmitter (HI 8936 or HI 8936L series) will assure you of a strong, interference free signal at distances up to 300 meters (1000').

For in-line applications use the HI 7635 probe, while for tanks the HI 7638 with external threads is recommended. These probes are provided with a built-in NTC sensor for temperature compensated conductivity measurements. The probe cable length is 3 meters (10').

HI 8931 also features a direct connection up to 20 m (67'), without intermediate amplifiers to the conductivity probe. HI 7638 conductivity probe features a DIN connector and automatic temperature compensation.

- Both electrode and transmitter compatible
- Selectable manual ON, OFF and Automatic Dosing Control with indicator
- Built-in auto-diagnostic function for offset and slope
- Both 4-20 and 0-20 mA output user selectable, all in one instrument
- Backlit LCD
- Operational mode LED indicators
- Transparent splash-proof cover included



HI 71326