

Conductivity Analog Controller with Direct Input from Potentiometric Probe



These controllers allow the direct connection of a potentiometric conductivity probe (HI 7638) with a cable up to 20 meters long, without using any transmitter.

Four different models are available with different measurement ranges, to satisfy any application requirements.

The output configuration for connecting a recorder or a PLC can be chosen between 0-20 or 4-20 mA.

The LED on the front panel indicates the operating status of the controller.

The automatic temperature compensation (ATC) is performed directly by the HI 7638 probe with built-in temperature sensor.

The front panel is protected behind a transparent splash-proof cover.

Specifications

	HI 943500A	HI 943500B	HI 943500C	HI 943500D
Range	0.0 to 199.9 mS/cm	0.00 to 19.99 mS/cm	0 to 1999 μ S/cm	0.0 to 199.9 μ S/cm
Resolution	0.1 mS/cm	0.01 mS/cm	1 μ S/cm	0.1 μ S/cm
Accuracy (@20°C/68°F)	$\pm 2\%$ F.S.			
Temperature Compensation	automatic, 0 to 60°C (32 to 140°F), with $\beta = 2\%/^{\circ}\text{C}$			
Recorder Output	4-20 mA (isolated)			
Setpoint Relay	1, isolated, 2A, Max. 240 V, resistive load, 1,000,000 strokes			
Alarm Relay	1, isolated, 2A, Max. 240 V, resistive load, 1,000,000 strokes			
Power Supply	115/230 $\pm 10\%$ Vac; 50/60 Hz			
Enclosure	black anodized aluminum body; front and back with 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 lb.)			

Accessories

HI 7638	Conductivity probe for immersion	HI 7030L	12880 μ S/cm calibration solution, 500 mL bottle
HI 7033L	84 μ S/cm calibration solution, 500 mL bottle	HI 7034L	80000 μ S/cm calibration solution, 500 mL bottle
HI 7031L	1413 μ S/cm calibration solution, 500 mL bottle		

Ordering Information

The HI 943500 series is supplied complete with mounting brackets and instructions.

For a complete range of process electrodes and probes, see section T2.