

HI 9931



Wall Mounted EC Controller with Proportional Function for Hydroponics and Fertigation



Specifications

HI 9931	
Range	0.00 to 10.00 mS/cm
Resolution	0.01 mS/cm
Accuracy (@20°C/68°F)	±2% F.S.
Calibration	manual, 2 point, with zero and slope trimmers on the front panel
Setpoint	selectable from 0.00 to 10.00 mS/cm
Temperature Compensation	automatic, 0 to 50°C (32 to 122°F) with $\beta = 2\%/^{\circ}\text{C}$
Recorder Output	selectable at 0-20 mA or 4-20 mA (isolated)
Proportional Control	adjustable from 0.0 to 1.6 mS/cm, time cycle from 0 to 90 seconds
Dosing Contact	1 powered terminal for EC correction (240 V, Max. 2A, 1,000,000 strokes) activated when reading < setpoint
Alarm Relay	1, activated when EC differs more than a selectable value (0.5 to 2.5 mS/cm) from setpoint or when max dosage time (adjustable from 1 to 10 minutes) elapses (isolated, Max 2A-240 V, resistive load, 1,000,000 strokes)
Power Supply	110/115 Vac ±10% or 220/240 Vac ±10%; 50/60 Hz
Environment	-10 to 50°C (14 to 122°F); RH max 95% non-condensing
Dimensions	221 x 181 x 86 mm (8.7 x 7.1 x 3.4")
Weight	1.6 kg (3.5 lb.)

Accessories

HI 7031L	1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 7039L	5000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle
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For a complete range of process electrodes and probes, see section T2.

HI 9931 is a wall mounted meter that measures and controls conductivity in the 0 to 10 mS/cm range. A single setpoint allows for proportional dosage of fertilizer solutions. The proportional settings can be fine tuned through two conveniently positioned dials on the front panel. The time cycle is adjustable from 0 to 90 seconds and the proportional band from 0 to 1.6 mS/cm. Coarse, fine and slope trimmers make accurate setting and calibration easy and convenient. A pump or electrovalve can be wired directly to the controller and be powered through the terminals.

HI 9931 also provides for an alarm relay which is activated when the measurements exceed the setpoint by a user-selectable margin from 0.5 to 2.5 mS/cm. The alarm also goes off if due to a malfunction, the continuous dosing time exceeds the operator adjustable period of 1 to 10 minutes. The alarm can be configured in either normally closed or open position and turned off during maintenance. HI 9931 also provides an isolated output signal which is user selectable between 0-20 or 4-20 mA.

HANNA instruments' 4-ring conductivity probes ending in a DIN connector can be quickly attached to the controller. Readings are automatically compensated for temperature variations in the 0 to 50°C (32 to 122°F) range.

For quick and easy wiring, HI 9931 comes with extractable terminal modules. Several LED's show whether the setpoint or alarm relays have been activated.

Ordering Information

HI 9931 is supplied complete with instructions.

1= 115 Vac power supply
2= 230 Vac power supply

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