



## Specifications

<b>HI 9920</b>	
Range	-500 to +1500 mV
Resolution	1 mV
Accuracy (@20°C/68°F)	±5 mV
Input Impedance	10 <sup>12</sup> Ohm
Calibration	manual, 1 point, through trimmer on the front panel
Recorder Output	selectable at 0-20 mA or 4-20 mA (isolated)
Setpoint	selectable from -500 to +1500 mV
Proportional Control	adjustable from 0 to 200 mV and time cycle from 0 to 90 seconds
Dosing Contact	1 powered terminal for ORP correction (115 or 240 V) Max. 2A, 1,000,000 strokes; activated when mV reading > setpoint for reducing dosage or when mV reading < setpoint for oxidizing dosage
Alarm Relay	1, activated when mV reading varies more than a selectable value (50 to 250 mV) from setpoint or when max dosing 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 7020L	200-275 mV test solution, 500 mL bottle	HI 7091L	Reducing solution, 500 mL bottle
HI 7021L	240 mV test solution, 500 mL bottle	HI 7092L	Oxidizing solution, 500 mL bottle
HI 7022L	475 mV test solution, 500 mL bottle	HI 8427	pH/ORP electrode simulator
		HI 931001	pH/ORP electrode simulator with display

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

## Wall Mounted ORP Controller with Proportional Dosage

HI 9920 is an ORP controller with a single setpoint for user-selectable dosage of reducing or oxidizing solutions. Any ORP electrode ending in a BNC connector can be directly attached to the controller. With proportional control, you can fine tune your treatment plant and minimize the use of chemicals. The proportional setting can be adjusted through the time cycle from 0 to 90 seconds and the band from 0 to 200 mV. The setpoint can be accurately adjusted through coarse and fine trimmers. A pump or electro-valve can be wired directly to the controller and be powered through the terminal. In addition to the setpoint relay, HI 9920 also provides for an alarm relay. The alarm is activated when the measurements exceed the operator-adjustable threshold of 50 to 250 mV. For extra security, a maximum dosing time from 1 to 10 minutes can also be set, after which the alarm is activated to signal an abnormality. The alarm configuration is alterable in a normally-closed or a normally-open state to accommodate fail-safe installations. Any recorder accepting a 0-20 or 4-20 mA output can also be hooked up to the controller. One can see the controller's status, even from a distance, by observing the dosage or alarm LED's. To speed up wiring, HI 9920 comes with extractable terminal modules. Once wired up, the compartment containing the connections is protected behind a fire-retardant ABS removable panel.

HI 9920 also provides for a ground probe to eliminate interference and prolong the electrode's life.

## Ordering Information

HI 9920 is supplied complete with instructions.

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

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