

**Panel Mounted ORP Controller with Self-diagnostic Test**



This instrument allows the selection of a setpoint for oxidizing or reducing dosage. It is provided with self-diagnostic feature to control the calibration at 0 and 500 mV. The user can also set the tolerance of the setpoint (10 to 200 mV), before an alarm is activated.

When used in conjunction with the HI 8710 pH controller, the ODCD\* function (featured by the HI 8710) will ensure that the ORP dosage will start only when the pH level is correct.

Two different models are available to accept either a direct input from an ORP electrode (E version) or from a transmitter through 4-20 mA input (T version).

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

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

\* ORP Dosing Consent Device

**Specifications**

	HI 8720E	HI 8720T
Range	-1000 to +1000 mV	
Resolution	1 mV	
Accuracy (@20°C/68°F)	±5 mV	±0.5%
Input	high impedance 10 <sup>12</sup> Ohm	4-20 mA
Calibration	slope: 90 to 110% with trimmer	
Recorder Output	0-20 mA or 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 ±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 7020L	200-275 mV test solution, 500 mL bottle	HI 931001	pH / ORP electrode simulator with display
HI 7091L	Reducing solution, 500 mL bottle	<u>HI 8720T only</u>	
HI 7092L	Oxidizing solution, 500 mL bottle	HI 8615	ORP transmitter
HI 8427	pH / ORP electrode simulator	HI 8615L	ORP transmitter with display

For a complete range of process electrodes and probes, see section 12.

**Ordering Information**

The HI 8720 series is supplied complete with mounting brackets and instructions.

**Input from electrode**

- HI 8720E020 with 0-20 mA recorder output
- HI 8720E420 with 4-20 mA recorder output

**Input from transmitter**

- HI 8720T020 with 0-20 mA recorder output
- HI 8720T420 with 4-20 mA recorder output