



## Proportional pH and ORP Control in a Single Wall Mounted Unit

HI 9912 is a 2-in-1 pH and ORP controller specially designed for pool control. Two separate setpoints can be user-adjusted from 6 to 8 pH and 500 to 900 mV. The relays are activated when the pH exceeds or the mV falls below the relevant setpoint.

HI 9912 accepts any pH and ORP electrode ending in a universal BNC connector. Two independent terminals provide for pH and ORP ground probes to eliminate interference and prolong the electrodes' lives.

HANNA instruments' proportional control allows considerable savings by minimizing the use of chemicals. The settings are made through independent time cycles adjustable from 0 to 90 seconds and two proportional bands from 0 to 200 mV and 0 to 2 pH. Two pumps or electro-valves can be wired directly to the controller and be powered through the terminal.

HI 9912's alarm is activated when measurements exceed the operator-adjustable thresholds of 50 to 250 mV or 0.5 to 2.5 pH. Should the two max. dosing periods of 1 to 10 minutes be exceeded an alarm is activated to signal the abnormality. The alarm is alterable in a normally-closed or a normally-open state and can be turned off during maintenance. The pools status can be ascertained from a distance through dosage and alarm LED's.

HI 9912 comes with extractable terminal modules for quicker and safer wiring. The wiring compartment is protected behind a fire-retardant ABS removable panel.

### Ordering Information

HI 9912 is supplied complete with instructions.

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

HI 9912-



### Specifications

HI 9912	
Range	0.00 to 14.00 pH; 0 to 1000 mV
Resolution	0.01 pH; 1 mV
Accuracy (@20°C/68°F)	±0.02 pH; ±5 mV
Input Impedance	10 <sup>12</sup> Ohm
Calibration	manual, 2 point for pH and 1 point for ORP, through trimmers on the front panel
Setpoint	2, selectable from 6.00 to 8.00 pH and from 500 to 900 mV
Proportional Control	adjustable from 0 to 2 pH and from 0 to 200 mV, time cycles from 0 to 90 seconds
Dosing Contact	2, powered terminal for pH and ORP corrections (240V) Max. 2A, 1,000,000 strokes pH dosage: activated when pH > setpoint; ORP dosage: activated when mV < setpoint
Alarm Relay	1, activated when pH varies more than a selectable value (0.5 to 2.5 pH) from setpoint or when max dosage time for pH (adjustable from 1 to 10 minutes) elapses; or activated when mV reading varies more than a selectable value (50 to 250 mV) from setpoint or when max dosage time for ORP (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 7004/1L	pH 4.01 buffer solution, 1 L bottle	HI 7021L	240 mV test solution, 500 mL bottle
HI 7007/1L	pH 7.01 buffer solution, 1 L bottle	HI 7022L	475 mV test solution, 500 mL bottle
HI 7010/1L	pH 10.01 buffer solution, 1 L bottle	HI 8427	pH/ORP electrode simulator
HI 7020L	200-275 mV test solution, 500 mL bottle	HI 931001	pH/ORP electrode simulator with display

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