



HI8710

## pH Analog Controller

with Self-Diagnostic Test

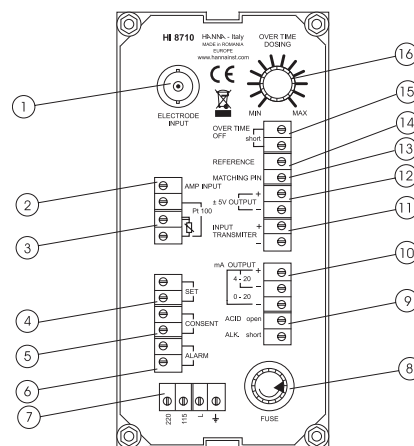
- 0.2 to 3.00 pH alarm tolerance range
- Automatic temperature compensation
- Backlit, LCD display
- Removable, transparent splash-proof cover protects the front panel.

HI8710 is a panel mounted pH controller with self-diagnostic test capabilities. Users can set: the setpoint for acid or alkaline dosing, the tolerance of the setpoint before an alarm is activated, the dosage mode: automatic, continuous on or OFF and the over dosage control by setting the overtime dosage knob.

When used in conjunction with the HI8720 ORP controller, the ODCD\* function will ensure that the ORP dosage will start only when the pH level is correct.

“Overtime dosage” function with selection knob and jumper for disable on the rear panel. If the dosing relay remains continuously activated for more than selected dosing time the alarm relay is activated, the alarm LED is blinking and the dosing relay is deactivated.

\* ORP dosing consent device



1. BNC socket for pH electrode
2. Input from amplified electrode
3. Connections for Pt100 temperature sensor
4. Connections for dosing pump
5. Reduc/Oxid dosage consent terminals
6. Alarm contacts
7. Power supply terminals
8. Fuse holder
9. Acid/Alkaline dosage selection terminals
10. Recorder output contacts
11. Connection to the transmitter
12. Power for amplified electrode
13. Connection for matching pin
14. Connection for reference electrode
15. Disable overtime connection
16. Overtime set knob (about 5 to 60 min)

### Specifications

### HI8710

Range	0.00 to 14.00 pH
Resolution	0.01 pH
Accuracy (@25°C/77°F)	±0.02 pH (0 to 100 °C); ±0.05 pH (-20 to 0 °C); ±0.5% (input from transmitter)
Input	high impedance 10 <sup>12</sup> Ohm; reference and matching pin inputs are available 4-20 mA
Power Output	±5 Vcc; 150 mA max load for amplified electrodes
Calibration	offset: ±2 pH with OFFSET trimmer; slope: 80 to 110% with SLOPE trimmer
Temperature Compensation	fixed or automatic with Pt100, from -20 to 100°C (-4 to 212°F)
Recorder Output	0-20 mA or 4-20 mA (isolated)
Set Point Relay	1, isolated, 2 A, max 240 V, resistive load, 1000000 strokes (not fuse protected)
Set Point Range	0.00 to 14.00 pH
Alarm Relay	1, isolated, 2 A, max 240 V, resistive load, 1000000 strokes (not fuse protected)
Alarm Range	0.2 to 3.00 pH
Consent Relay	1, isolated, 2 A, max 240 V, resistive load, 1000000 strokes (not fuse protected)
Dosing Control	OFF/AUTO/ON with selection switch
Over Dosing Control	adjustable, from 5 min to 60 min with knob or disable by wire strap - on rear panel
Backlight	continuous on
Power Supply	115 VAC ±10% or 230 VAC ±10%; 50/60 Hz
Enclosure	flame retardant ABS body and front panel; 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.)
<b>Ordering Information</b>	The <b>HI8710</b> is supplied complete with mounting brackets and instructions.
<b>Accessories</b>	<b>HI8427</b> pH / ORP electrode simulator
	<b>HI931001</b> pH / ORP electrode simulator with display
	<b>HI8614N</b> pH transmitter
	<b>HI8614LN</b> pH transmitter with display