



HI8711 pH Analog Controller

with Dual Output and
Self-Diagnostic Test

- Alarm
 - Fail Safe Alarm System
- ATC
 - Automatic temperature compensation
- Backlight
 - Backlit, LCD display

HI8711 allows the selection of two set points with two independent outputs for acid and alkaline dosages.

Each model accepts either a direct input from a pH or ORP electrode or from a transmitter through 4-20 mA input. The instrument also provides $\pm 5V$ power output and input terminals for amplified electrodes. In addition, you can choose the output configuration for connecting a recorder or a PLC, between 0-20 or 4-20 mA.

The HI8711 incorporates adjustable overtime dosing protection from 5 to 60 minutes. If dosing exceeds selected time, the alarm will be triggered and the dosing contact will deactivate. This feature can be activated or deactivated.

A removable, transparent splash-proof cover protects the front panel.

Specifications HI8711

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); $\pm 0.5\%$ (input from transmitter)
Input	high impedance 10^{12} Ohm; reference and matching pin inputs are available; 4-20 mA
Power Output	$\pm 5V$ cc; 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	2, isolated, 2 A, max 240 V, resistive load, 1000000 strokes (not fuse protected)
Set Point Range	alk. set: from 0.00 to 14.00 pH; acid set: from 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
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 $\pm 10\%$ or 230 VAC $\pm 10\%$; 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.)
Ordering Information	The HI8711 is supplied complete with mounting brackets and instructions.
Accessories	HI8427 pH / ORP electrode simulator
	HI931001 pH / ORP electrode simulator with display
	HI8614N pH transmitter
	HI8614LN pH transmitter with display

For complete list of pH calibration and electrode solutions, see section 3