

pH Mini Controller with 4-20 mA Recorder Output



BL 931700 mini pH controller has been designed for easy, affordable installation in tight spaces to perform simple yet effective process control.

Thanks to its compact size, BL 931700 can be installed right next to tanks or vats.

This versatile controller is ideal for a wide variety of applications, such as textiles, papers, photographic solutions, plating baths, chemicals and water treatment.

BL 931700 is provided with a selectable setpoint for acid or basic dosage.

Measurements are directly acquired from a pH electrode in the range from 0 to 14 with a 0.01 pH resolution.

Accuracy is ensured by the 2 point calibration, performed manually through trimmers on the front panel.

You can also choose automatic or manual dosing mode with a switch on the front panel. Manual control is particularly useful during maintenance operations, because it permits you to enable or disable the dosing relay according to your need.

The overtime control system advises you when the relay is active for too long, helping to prevent overdosing.

In addition, this model features a 4-20 mA analog output for recorder connection.

Two models are available, with different power supply input at 115/230 Vac or 12 Vdc.

Specifications

	BL 931700-0	BL 931700-1
Range	0.00 to 14.00 pH	
Resolution	0.01 pH	
Accuracy (@20°C/68°F)	±0.02 pH	
Calibration	manual, 2 point, with offset and slope trimmers	
Dosing Relay	1, max 2A (fuse protected), 250 Vac, 30 Vdc	
Dosing Selection	acid or alkaline contact open = acid dosage; activated when reading exceeds setpoint value contact closed = alkaline dosage; activated when reading falls below setpoint value	
Setpoint	adjustable from 0.00 to 14.00 pH	
Overtime	adjustable, typically from 5 to approx. 30 minutes	
Recorder Output	4-20 mA, accuracy ±0.20 mA, 500 Ohm max load	
Input Impedance	10 ¹² Ohm	
Power Supply	12 Vdc adapter (included)	115/230 Vac; 50/60Hz
Dimensions	83 x 53 x 99 mm (3.3 x 2.1 x 3.9")	
Weight	200 g (7.1 oz.)	300 g (10.6 oz.)

Accessories

HI 7004L	pH 4.01 calibration solution, 500 mL bottle	HI 7061L	Electrode cleaning solution, 500 mL bottle
HI 7007L	pH 7.01 calibration solution, 500 mL bottle	HI 710005	115 Vac/12 Vdc power adapter
HI 7010L	pH 10.01 calibration solution, 500 mL bottle	HI 710006	230 Vac/12 Vdc power adapter
HI 70300L	Electrode storage solution, 500 mL bottle	HI 740146	Mounting brackets

For pH and ORP electrodes, see section E.

Ordering Information

BL 931700-0 is supplied complete with mounting brackets, transparent cover, 12 Vdc power adapter and instructions.

BL 931700-1 is supplied complete with mounting brackets, transparent cover and instructions.