



BL931700

## pH Mini Controller

with 4-20 mA Recorder Output

- Large Clear LCD
- Fire Retardant Casing
- BNC Connection
- Splash-resistant cover

The BL931700 is a compact single setpoint pH controller designed for applications where space and/or cost are important. Its adjustable dosing relay may be configured to dose above or below a pH setpoint. Users may choose from automatic or manual dosing modes allowing for easy maintenance and troubleshooting. The device contains a high impedance pH input and may be used with any pH electrode that has a standard BNC connector.

### Enhanced Accuracy & Precision

The BL931700 model offers a manual two-point calibration with pH values displayed out to two decimal places.

### External Disabling Feature

A normally open contact may connect to a level controller or flow monitor. This safety feature may be used to prevent continuous dosing in the event of specific or undesired system conditions.

### Adjustable Dosing Relay

The BL931700 features a dosing relay which may be configured to dose above or below a user programmable pH setpoint.

### Selectable Overdose Protection

The mini controller may be programmed to deactivate a valve, pump, or connected device if its activation continues over a selected time; adjustable from 5 to 30 minutes.

### Selectable Control Override

With the flick of a switch, normal "Auto" operation may be overridden turning your connected device "Off" from operation or always "On."

### Analog Output Communication

The BL931700 features a 4 - 20 mA analog output for connection to a data logger, chart recorder, or other device.

### Matching Pin Connection

An included matching pin option helps protect the sensor from ground loop effects that may lead to erratic readings or system damage.

### Fuse Protected Dosing Contacts

The mini controller is protected for up to a 2A load from the connected pump or device.

### Easy Peripheral Connection

Quick-connect terminal blocks provide for easy connection to power, communication, dosing control, or sensors.

Specifications	BL931700
Range	0.00 to 14.00 pH
Resolution	0.01 pH
Accuracy (@25°C/77°F)	±0.02 pH
Calibration	manual, through offset and slope trimmers
Dosing Relay	maximum 2A (fuse protected), 250 Vac, 30 VDC
Dosing Selection	acid or alkaline contact open=acid dosage=relay ON if measurement > setpoint contact closed=alkaline dosage=relay ON if measurement < setpoint
Setpoint	adjustable from 0 to 14 pH
Overtime	adjustable, typically from 5 to approximately 30 minutes
Recorder Output	4 to 20 mA, accuracy ±0.20 mA, 500 Ω maximum load
Input Impedance	10 <sup>12</sup> Ohm
Power Supply	BL931700-0: 12 VDC adapter (included); BL931700-1: 115/230 VAC; 50/60Hz
Dimensions	83 x 53 x 99 mm (3.3 x 2.1 x 3.9")
Weight	BL931700-0: 200 g (7.1 oz.); BL931700-1: 300 g (10.6 oz.)
Ordering Information	<b>BL931700-0</b> (12 VDC) and <b>BL931700-1</b> (115/230V) are supplied with mounting brackets, transparent cover and instruction manual.
Recommended Probe	<b>HI1001</b> PVDF body pH electrode with 1/2" NPT thread, BNC connector and 3 m (9.8') cable for continuous flow-thru monitoring (not included).