



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 ¹² 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	BL931700-0 (12 VDC) and BL931700-1 (115/230V) are supplied with mounting brackets, transparent cover and instruction manual.
Recommended Probe	HI1001 PVDF body pH electrode with 1/2" NPT thread, BNC connector and 3 m (9.8') cable for continuous flow-thru monitoring (not included).