



An all-in-one solution for automatic control of pH and chlorine levels in swimming pool, hot tub, and spa water.

Specifications	BL122/BL123	
pH	Range*	0.00 to 14.00 pH
	Resolution	0.01 pH
	Accuracy (@25°C/77°F)	±0.05 pH
	Calibration	pH buffer calibration: Automatic, two points (4.01, 7.01, 10.01 pH) pH process calibration: Single point, adjustable
	pH Controller	proportional feed using adjustable set point and adjustable proportional band delay to start at power-on overdosing protection using overfeed safety timer
mV	Range	±2000 mV
	Resolution	1 mV
	Accuracy (@25°C/77°F)	±5 mV
	ORP (mV) Calibration	single point, adjustable
Temperature	ORP Controller	proportional feed using adjustable set point and adjustable proportional band delay to start at power-on overdosing protection using overfeed safety timer pH regulator interlocked
	Range*	-5.0 to 105.0 °C (23.0 to 221.0 °F)
	Resolution	0.1 °C (0.1 °F)
	Accuracy (@25°C/77°F)	±1 °C (±1.8 °F)
Additional Specifications	Temperature Compensation	automatic -5.0 to 105.0 °C (23.0 to 221.0 °F) for pH
	Alarms	high and Low with enable / disable option for all parameters alarm is triggered after five consecutive readings over / under threshold
	Log Feature	automatic log 60 days logging with 10 seconds period (or 100 logs) pH / ORP / temperature measurements events: alarms / errors / power outage recall table/graphic modes export on USB key log files in CSV format

\*range limited by probe.

	<p>BL122 and BL123 devices are connected to Hanna Cloud using a secured connection.</p> <ul style="list-style-type: none"> <li>• ethernet (RJ45) 10/100 Mbps connection</li> <li>• device Identity Registry</li> <li>• policy-based authorization of security keys</li> </ul> <p>The instrument will send status information to Hanna Cloud with a defined period.</p> <ul style="list-style-type: none"> <li>• readings: pH, ORP, temperature</li> <li>• events: alarms/warnings/errors</li> <li>• peripheral status: LEDs</li> <li>• last dosed acid and chlorine volumes</li> <li>• GLP info</li> </ul>
Cloud Connectivity	<p>The instrument will send setup information to Hanna Cloud at startup and whenever the setup is changed on the instrument.</p> <ul style="list-style-type: none"> <li>• alarm settings</li> <li>• dosing settings</li> <li>• general settings</li> <li>• system: meter information (model, FW version, OS version, serial number), probe information (type, FW version, serial number)</li> </ul> <p>The BL122 and BL123 "Remote Hold" mode:</p> <ul style="list-style-type: none"> <li>• is an emergency mode that can be remotely triggered via web application</li> <li>• in this mode the pumps are deactivated</li> <li>• can be canceled manually from the controller menu</li> </ul>
Ethernet Input	ethernet connector (RJ-45) 10/100 Mbps connection
Pump Control	pump flow control 0.5 to 3.5 L/h (0.13 to 0.92 G/hour) and maximum output pressure 1 atm (14 psi) manual control for each pump
Password Protection	setup, calibration and log recall features are password protected
Storage Interface	USB
GLP	pH/ORP
Alarm System	Intuitive alert system based on LED color coded alarm system Alarm filtering options Alarm relay control based on user setup filters
Alarm Relay Output (1)	SPDT 5A/230 VAC Activated by selectable pH / ORP / Temperature alarm conditions
Analog Outputs (3) (BL123 only)	three configurable analog outputs, 4 to 20 mA, sourcing output impedance $\leq 500 \Omega$ accuracy $< 0.5\%$ FS galvanic isolation, up to 50 V relative to earth
Digital Inputs (3)	galvanic isolated, powered contact type one input for low level in acid / base tank (contact open) one input for low level in chlorine tank (contact open) one input for Hold mode (contact open)
Probe Input (1)	probe type: HI1036-18XX pH / ORP / Temperature / Matching pin, combined digital probe DIN waterproof connector galvanic isolation RS485 interface
Power Supply	100–240 VAC
Power Consumption	15 VA
Environment	0 to 50°C (32-122°F); max 95% RH non-condensing
Dimensions	245 x 188 x 55 mm (73 mm with pumps); 9.6 x 7.4 x 2.2" (2.9" with pumps)
Weight	1700 g (60 oz.)
Casing	Wall mounted, built-in pump, IP65 rated

**In-Line Configuration:**

**BL122-10** and **BL123-10** (analog outputs) pH/ORP/temperature pool controller is supplied with HI1036-1802 pH/ORP/temperature digital probe with matching pin, saddle for electrode 50 mm (1), fittings for electrode Injector (2), saddle for injectors 50 mm (2), peristaltic pump tubing (2), aspiration (5 m) and injection (5 m) tubing, aspiration filter (2), pH 7.01 buffer sachets, 20 ml (3), pH 4.01 buffer sachets, 20 ml (3), 470 mV ORP test solution sachet, 20 ml (3), power cable, user manual, and quality certificates for meter and probe.

Ordering  
Information

**User Panel Flow Cell Configuration:**

**BL122-20** and **BL123-20** (analog outputs) pH/ORP/Temperature pool controller is supplied with HI1036-1802 pH/ORP/temperature digital probe with matching pin, two valves for flow-cell connections with fittings and tubing 10 m, saddle for valves 50 mm (2), saddle for electrode 50 mm (1), fittings for electrode Injector (2), saddle for injectors 50 mm (2), peristaltic pump tubing (2), aspiration (5 m) and injection (5 m) tubing, aspiration filter (2), pH 7.01 buffer sachets, 20 ml (3), pH 4.01 buffer sachets, 20 ml (3), 470 mV ORP test solution sachet, 20 ml (3), power cable, user manual, and quality certificates for meter and probe.