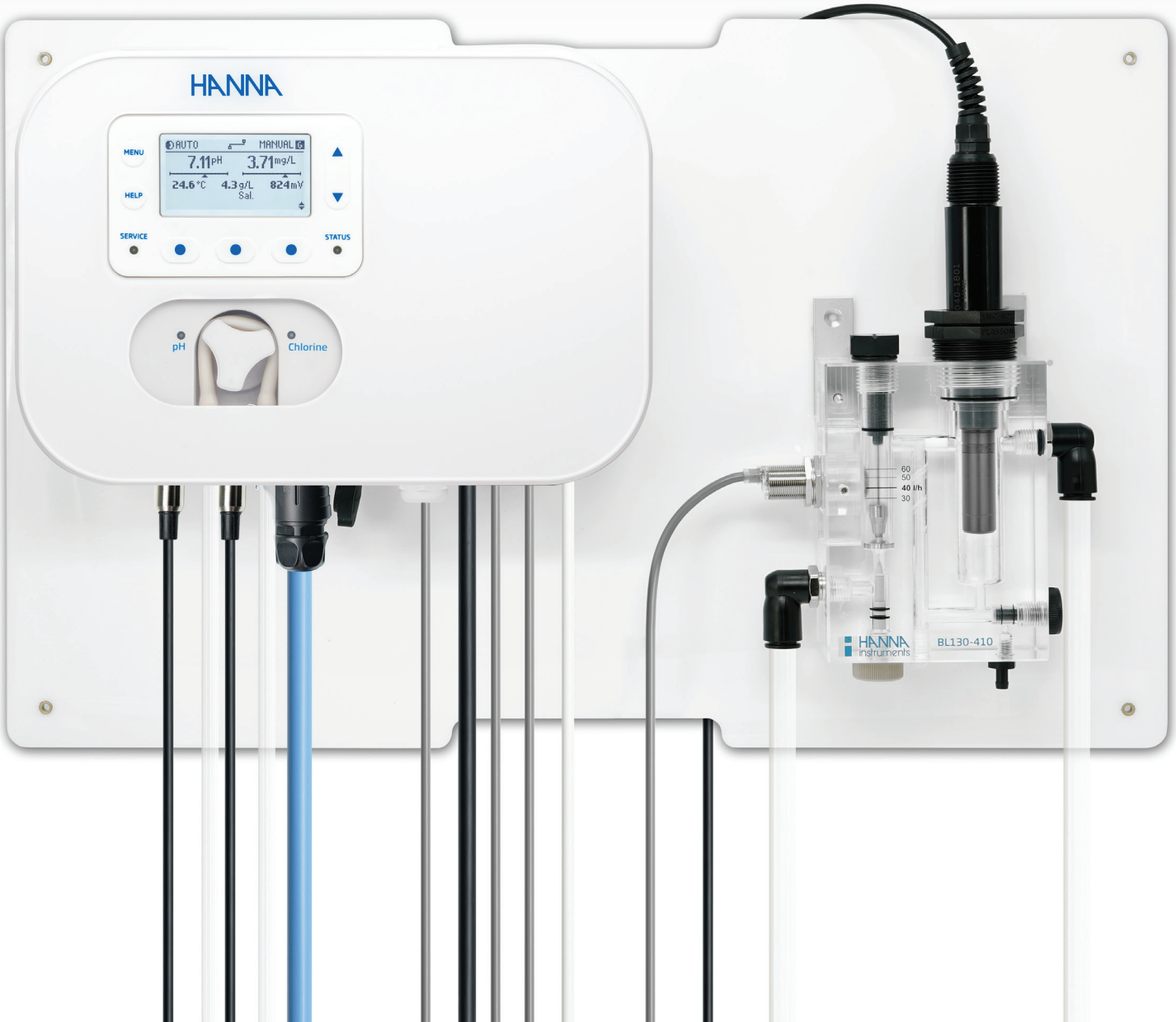
BL135 • BL136

Salt Swimming Pool Controllers Designed to Measure and Control pH, Salinity and Free Chlorine Levels

HANNA® instruments

All in one chlorine management, pH control, and saltwater chlorination disinfection package, complete with measurement probes

The Hanna® BL135 and BL136 are Salt Swimming Pool Controllers with chlorine generation for pool disinfection. The controller features continuous measurement and display of free chlorine, pH, ORP (mV) values, as well as water and air temperatures, and salt level.



Overview

The Hanna Instruments® BL135 and BL136 Salt Swimming Pool Controllers and BL130-7X0 Salt Chlorinator are designed to automate and control free chlorine, pH, and disinfection levels in saltwater swimming pools.

The system uses electrolysis to convert dissolved salt (sodium chloride) in the water into hypochlorous acid (HOCl) to sanitize the pool.

Hypochlorous acid (HOCl) is the form of chlorine most effective at destroying pathogens. HOCl is formed in its highest concentrations between pH 7.2 and pH 7.4, and serves as a disinfectant, oxidizer, and has residual protection.

The controller displays the continuous measurements of pH / ORP (redox), free chlorine values, as well as water and air temperatures, and the salt level of the pool water while water is circulated past the HI1038-2802 pH / ORP probe and the HI1040-1801 chlorine probe.

The BL135 and BL136 Salt Swimming Pool Controllers automate chlorine generation and acid or base additions to configured setpoints or time periods. Chlorine is generated by the BL130-7X0 chlorinator in a flowing system that requires the pool's recirculation pump to be active.

In automatic mode, chlorine generation only starts after the pH setpoint has been reached. Acid or base additions use the integrated peristaltic pump with proportional control to prevent overdosing.

Sanitation monitoring and control

The BL135 and BL136 system relies on a two-tier approach for automated chlorine management and water-sanitation monitoring.

The HI1040-1801 membrane-covered chlorine electrode measures the actual concentration of free chlorine (mg/L) in the pool water and is used for primary control. This probe contains a chlorine sensor for real-time monitoring of chlorine levels.

The HI1038-2802 pH sensor is highly effective at measuring pool-water alkalinity thus monitoring the real-time disinfection efficacy. This probe contains pH, ORP, and temperature sensors as well as reference and salinity electrodes in a single body. The ORP (redox) sensor is gold. The salinity pins are titanium, and the probe body is PVDF.

The system uses the pH sensor to compensate the signal, ensuring that even if the pH drifts slightly, the chlorine reading remains accurate.

BL130-7X0 chlorinator control

The chlorinator control can automatically regulate chlorine production using chlorine (Cl) setpoints and measurements as well as fixed chlorine production. It features a Fixed Mode, Pool Startup Mode, a Boost and Scheduled Boost Mode, and Pool Cover detection.

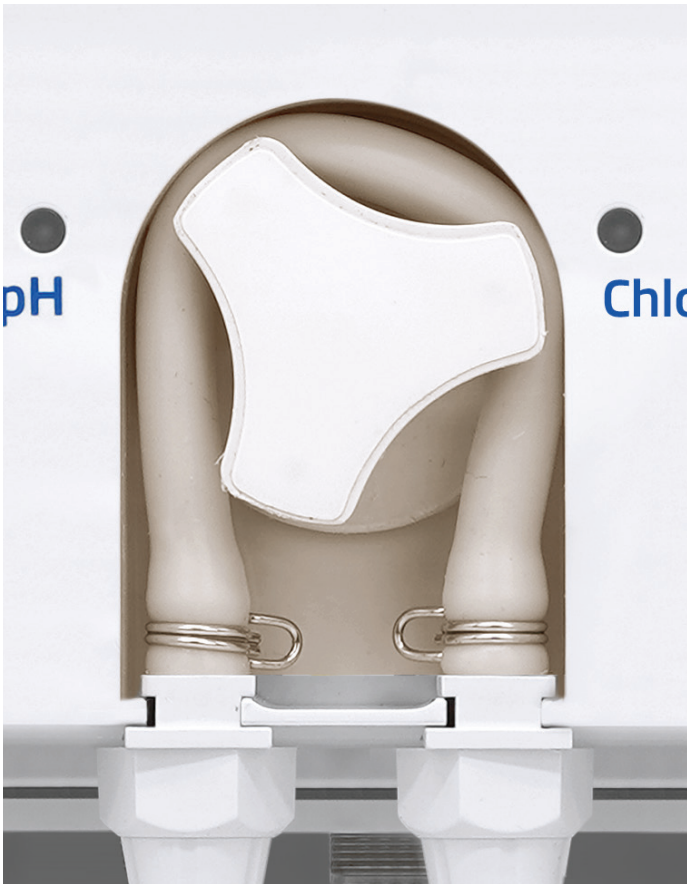
- Fixed mode
  - A "Fixed" mode may be set for proportional chlorine generation.
  - The proportional generation method varies the voltage and amperage for the chlorine generation percentage (%) and continuously produces chlorine.
  - The "Fixed" mode, when Extend Cell option is enabled, runs the chlorine generator intermittently at 100% power (with off periods).
- Pool startup mode
  - "Pool Startup" mode enables automatic, independent chemical dosing based on pH and chlorine setpoints for up to 12 hours.
- Boost & scheduled boost mode
  - The "Boost Chlorination" feature provides maximum chlorine production for configured amount of time. It then switches back to previous setting i.e. AUTO or FIXED. Users can schedule 100% output for specific times on the specified days of the week to align with heavy usage.
- Pool cover detection
  - The chlorine production is decreased if a pool cover it detected and the cover alarm is triggered.

Magnetic faceplate

Main feature points

- All in one chlorine management, pH control, and saltwater chlorination disinfection package, complete with measurement probes
- Continuous measurement and display of free chlorine values, pH/ORP (mV) values, water and air temperature, salt level
- Integrated peristaltic pump with proportional control for pH control to prevent overdosing
- Chlorinator (salt electrolysis cell) to produce chlorine disinfectant from salt water
  - Available with a variety of cell sizes and output capacity to suit different pool sizes and needs
- Programmable modes for automatic chlorinator control using:
  - Free chlorine sensor measurement
  - Fixed and Auto Mode
  - Pool Startup Mode
  - Boost Mode
  - Pool Cover Mode
- Self-cleaning electrolysis cell inverts polarity to remove deposits from water hardness
- Dosing resumed on restart in case of power failure
- Manual control for pump priming
- Level input detection
- Air temperature sensor
  - Triggers relay to activate the recirculation pump to prevent water freezing in the pipes
- Configurable logging interval
- Real-time graph display
- Controller status, servicing, pump operation (dosing) LED indicators
- Magnetic faceplate removal stops internal pump movement
- Front-facing wiring panel for easy accessibility
- USB port for logged data and firmware updates
- BL136 model available with Cloud connectivity (parameter monitoring and remote settings configuration)
- BL135 model available with Analog Outputs (AO)
- Help section – overview of instrument's main functionalities and features
- Programmable alarms
- Password protection

Additional features



Peristaltic chemical feed pump

These controllers are equipped with a peristaltic dosing pump with replaceable chemical resistant tubing that is proportionally controlled with adjustable flow rates.

Multicolored LED Indicators

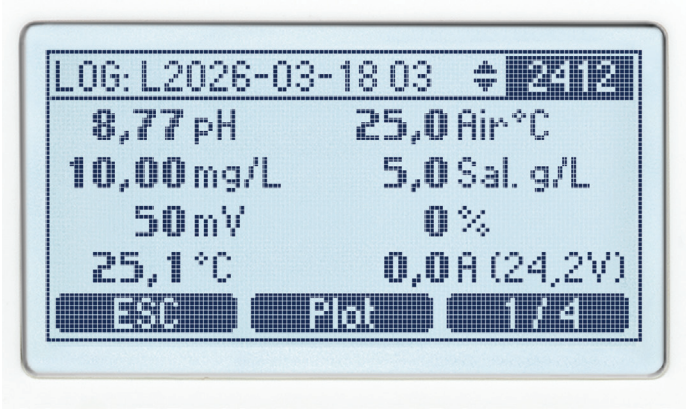
The controllers offer multiple LED indicators for status, servicing, and pump operation. The STATUS LED changes color based on operational state; a green LED means the water is within the desired parameter ranges, a yellow LED means that the controller needs attention, and a red LED identifies a problem in the system such as high/low alarms. The SERVICE LED indicates attention is required by a service technician.

Automatic proportional pump control

BL135 and BL136 feature a proportionally controlled dosing pump. The user can set the proportional band based on the sensitivity of the process. This setting determines the amount of time that the pumps are dosing as a percentage of the deviation from the set point. For example, a large body of water will use a small proportional band; having a small band (e.g., 0.1 pH) will ensure the pumps are dosing more often when the reading is close to the set point. For smaller bodies of water such as hot tubs or spas, it is more useful to set a larger proportional band (e.g.,1.0 pH); when the reading is close to the set point, the amount of time that the dosing pump is on is minimal to avoid large swings of pH or ORP. This valuable feature allows for very fine control in maintaining the desired set point.

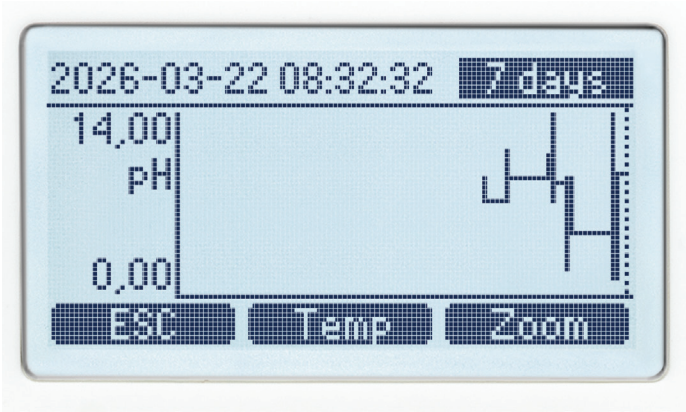
Adjustable flow rate

The dosing pump flow rate is adjustable from 0.5 to 3.5 L/h (0.13 to 0.92 gal/h). Larger bodies of water require more chemical to be dosed than small bodies since it takes more chemical to see a change in the reading. The adjustable flow rate, like the proportional band, allows for better control in maintaining a desired set point.



Automatic logging

Measurement readings can be set at 30s/1m/5m/15m/30m/1h intervals. A new log is started each time the instrument is calibrated when a setting is changed, or when a log becomes full. Logged data includes pH, ORP, salinity, chlorine, air and water-temperature values, last calibration data, setup configuration, and any event data. Logs can be viewed on display in standard or plot mode and can be exported to USB flash drive in .CSV format.



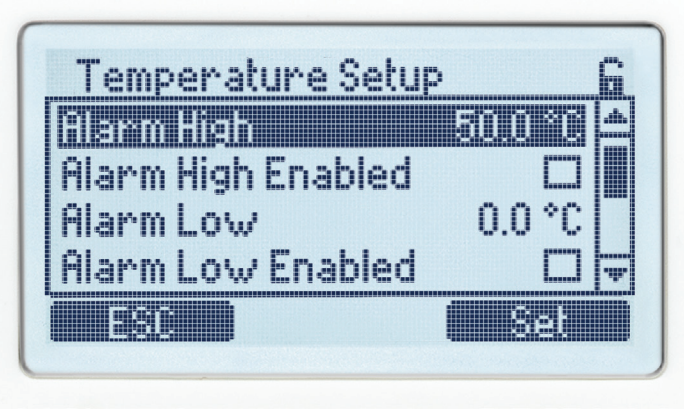
- Recall data displayed as a plot
  - Options to zoom in 7 days or 6 hours
  - Overview of measure range registered values (i.e. min, max, and average).

USB connectivity

Use the USB port to easily export data to a flash drive.

GLP

Good Laboratory Practice (GLP) refers to a quality control function used to ensure uniformity of probe calibrations and measurements. GLP stores chlorine, pH, ORP, and salinity calibration information such as calibration points, date and time, and pH buffers used.



Alarm system

Programmable alarm system

These controllers allow users to enable or disable the low and high level of alarms for all parameters: pH, ORP (mV), chlorine, salinity, and temperature. When an alarm is activated, all dosing will stop. The alarm system also offers overdosing protection in that if the value is not corrected within a specified time interval then the meter will go into alarm status.

Hold input

It is possible to connect a flow switch mounted in-line or a mechanical relay that is connected to the recirculation pump power source to the hold input of these controllers. With no flow or when no power is applied to the recirculation pump, the hold circuit will disable the dosing pumps. This will prevent any dosing of chemical when there is no movement of water in the system.

Ethernet port for Hanna Cloud connectivity (BL136 only)

The BL136 Salt Swimming Pool Controller can connect to Hanna Cloud, a web-based application. The BL136 connects to the internet using an Ethernet connection.

Measurements, trends, history, device settings (including remote hold), alarms, and messages are transmitted to the user's "Dashboard", as the instrument controls the process.

The BL136 supports bidirectional support of settings.

Analog outputs (BL135 only)

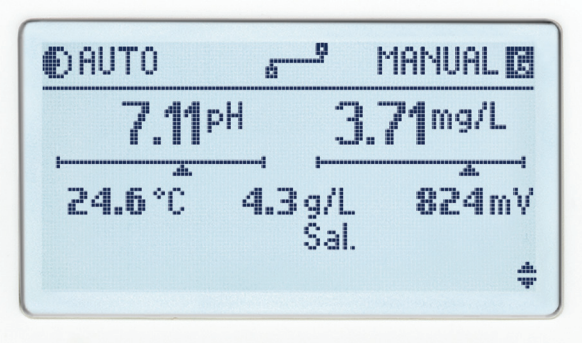
The BL135 controller offer three 4-20 mA outputs. Each output can be disabled or connected to an external recording device. Three measured parameters can be assigned to an analog output where the current signal will be proportional to the measured value. For more flexibility and better resolution, the analog output can be scaled; users can define any two points within a parameter range to correspond to the analog output span. For example, the controller assigns 0 pH to 4 mA and 14 pH to 20 mA as a default. The user can adjust the pH range to assign pH 6 to 4 mA and pH 8 to 20 mA. This adjustment allows better resolution in the range of interest.

Safety features

- The flow control immediately stops continued chemical dosing when the flow through the chlorinator cell is stopped
- Chlorinator safety sensor
  - Monitors for gas entrapments, lack of water, low temperature, low salt
- pH safety devices
  - Overtime timers provide overfeed protection, crucial for shutting down acid or base feeding if pH sensor fails or recirculation system stops
- Programmable alarms
- Password protection
  - Restricted access to calibration, setup, and review of logged data

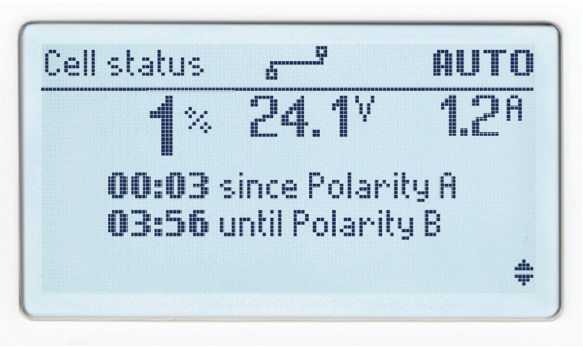
Display modes

The versatile display of these controllers allows for multiple display modes. The LCD can display all parameters, single parameter, chlorinator (cell status), or 24-hour plot screen with options for parameter selection and additional details.



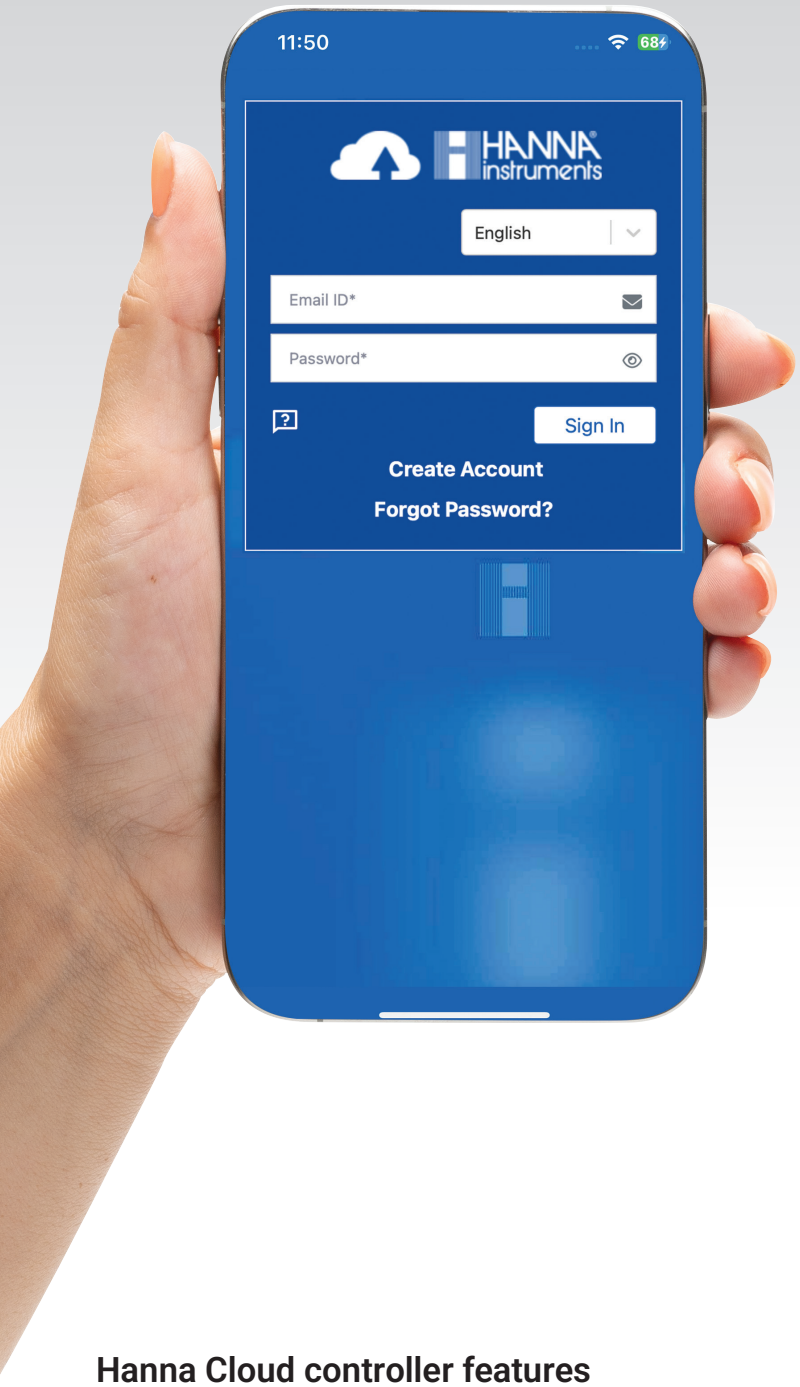
All parameters

Single parameter



Chlorinator (cell status)

24-hour plot



Keep track anywhere with Hanna Cloud connectivity (BL136 only)

Hanna Cloud is a web-based application that connects you to the BL136. Hanna Cloud measurements and data storage is accessible from most modern web browsers or though the Hanna Pool App available for iOS and Android. Multiple devices can be registered to a single Hanna Cloud account.

Measurements, trends, history, device settings, alarms and messages are transmitted to Hanna Cloud as your instrument measures and controls your process.

Multiple secondary users may also be added to your device account to monitor measurements and receive notifications from your controller.

Hanna Cloud incorporates security for your personal information. We protect your information using technical and administrative security measures to reduce risks of loss or misuse. These include (but are not limited to), a secured connection, device identity registration, and password encryption.

HANNA CLOUD

Hanna Cloud application is compatible with most modern web browsers.

Pool

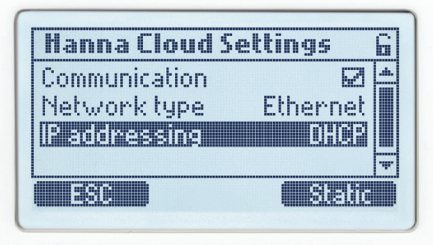
Hanna Pool App is your portal to Hanna Cloud. Available on the App Store® and Google Play

https://www.hannacloud.com/

Hanna Cloud controller features

Settings

Configure your settings for cloud connectivity.



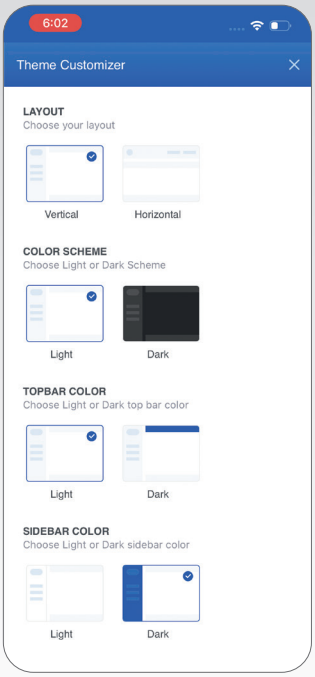
Hanna Cloud options

Choose from Static or DHCP connection.

R-HOLD (Remote Hold)

The reagent pumps can be turned off using the Remote Hold feature from Hanna Cloud. They can be reactivated at the controller or through Hanna Cloud.

Hanna Cloud web features

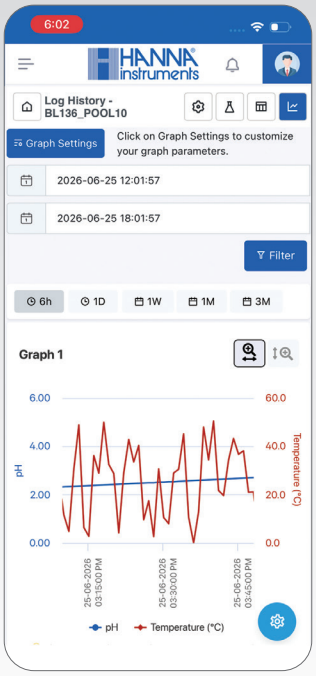


Theme customizer

Personal preferences such as layout and color scheme can be customized.

Notifications

Select which notifications you would like to receive. Notifications are sent directly to your device.

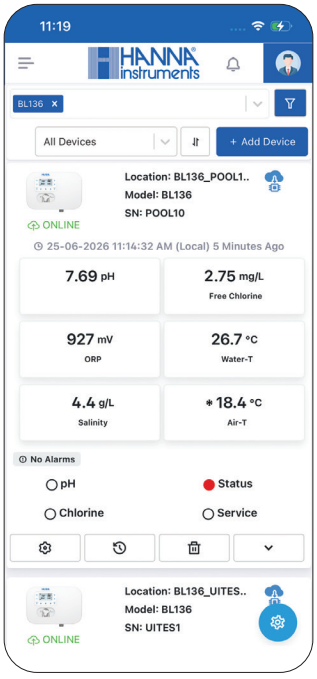


Graphing

Use a graph to view trends over the last 12 hours or change the time period.

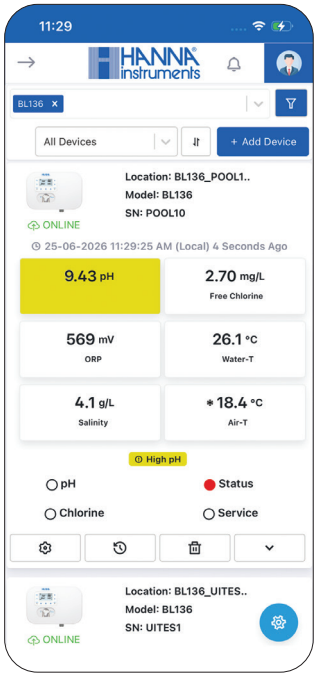
Logging

Log history can be transferred as a PDF or .CSV.



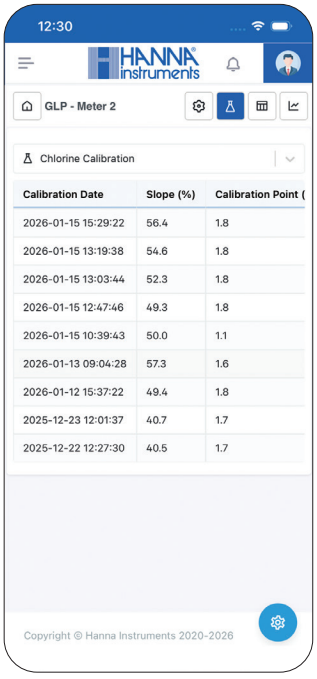
Dashboard

The dashboard provides an overview of the current status. Measurements can be viewed live on your device.



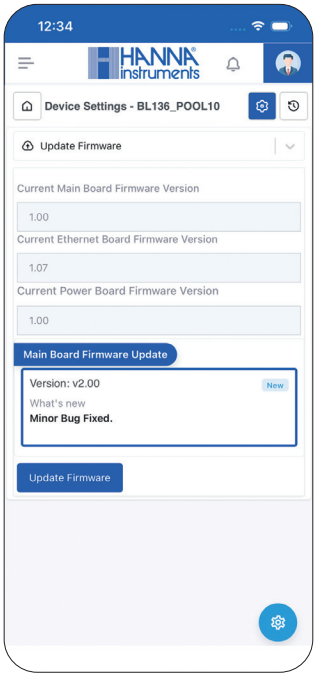
Alarms thresholds

User defined alarm values ensure your pool is properly sanitized. Out of range readings are clearly identified.



GLP

GLP data is readily available.



Updates

Keep up to date with the latest firmware updates.

Specifications:

Specifications		BL135/BL136
pH	Range	0.00 to 14.00 pH*
	Resolution	0.01 pH
	Accuracy	±0.05 pH (@ 25 °C / 77 °F)

	Calibration	• pH buffer:
		  • Automatic buffer recognition
		• Two points (4.01 pH, 7.01 pH, 10.01 pH)
		• pH process:
		  • Adjustable, single point

	Temperature compensation	Automatic temperature compensation for pH (range: –5.0 to 105.0 °C / 23.0 to 221.0 °F
	pH compensation	• Automatic pH compensation for chlorine • Range 6.0 to 8.0 pH*
ORP (mV)	Range	±2000 mV
	Resolution	1 mV
	Accuracy	±5 mV (@25 °C /77 °F – in ORP standard)
	Calibration	Adjustable, single point
Free chlorine	Range	0.00 to 10.00 mg/L
	Resolution	0.01 mg/L
	Accuracy	± 0.1 ppm±5% of reading**
	Calibration	One-point user calibration, custom point
	Temperature compensation	Automatic temperature compensation for chlorine (range: 15 to 40 °C / 59 to 104 °F)
Salinity	Range	–5.0 to 105.0 °C (23.0 to 221.0 °F)*
	Resolution	0.1 g/L
	Accuracy	±0.2 g/L NaCl or ±2 % of reading , whichever is greater
	Calibration	• Automatic • One-point calibration at 5.00 g/L or 35.00 g/L
	Temperature compensation	Automatic temperature compensation for Salinity
Temperature	Range	–5.0 to 105.0 °C (23.0 to 221.0 °F)*
	Resolution	0.1 °C / 0.1 °F
	Accuracy	±1.0 °C /±1.8 °F (@25 °C / 77 °F)
Air temperature	Range	–30.0 to 80.0 °C (–22.0 to 176.0 °F)*
	Resolution	0.1 °C / 0.1 °F
	Accuracy	0.5°C
Data logging		
Data logging memory	• Automatic logging of pH , ORP , salinity, chlorine, air and water-temperature measurements • 300 days logging, depending on selected logging interval • 100 lots (when memory is full, the new entry replaces the oldest data)	
Data logging type	• Event type: setup , alarms , errors , warnings , calibration , power outage	

Data logging interval	• Configurable logging interval:
	  • 30 seconds
	  • 1; 5; 15; 30; 60 minutes	

Data logging export options	• Export to USB flash drive (USB-C port) in CSV format	
Connectivity		
RJ-45 (**BL136 only**)	• Ethernet connector (10/100 Mbps connection)	
USB-C	• Data export • Software update	

Additional specifications	
pH control	• Uses pH measurement • Delay to start at power on • Proportional feed using adjustable set point and adjustable proportional band • Dead band adjustable 0.01-0.20 pH (Technical Mode only) • Overdose protection using the overfeed timer

Chlorinator control	• Uses chlorine measurement
	• Programmable modes:
	  • Boost Chlorine
	  • Scheduled Boost
	  • Pool Startup
	  • Pool Cover Detect
	  • Chlorine control AUTO, FIXED, Manual (On/Off)

Internal pump control	• 0.5 to 3.5 L/h (0.13 to 0.92 gal/h) pump flow control • 1 atm (14 psi) maximum output pressure • Manual pump control • Magnetic faceplate (covers the internal moving pump) triggers Hold status when removed and stops the pump
Pool Startup mode	Simplified pool startup procedure • Enabled or disabled manually from the controller menu • Ensures 12 hour dosing cycle to reach a target setpoint • Disabled automatically when setpoint is reached or the 12-hour timeout has expired
Pool Cover detection	Reduced chlorine output when pool covered detected
Freeze Protection mode	Air-temperature measurement triggers relay to activate the recirculation pump to prevent water freezing in the pipes
Boost chlorination	Ensures high-chlorine levels are produced in a short amount of time
Cold water protection	Reduced chlorine output when pool water below 15 °C (59 °F)
GLP	Chlorine, pH, ORP, salinity
Meter password protection	Password protected setup, calibration, and log recall
Relays	• Alarm relay (SPDT) • Activated by selectable chlorine, pH, ORP, salinity, temperature alarm conditions • Auxiliary Acid / Base pump relay (SPST) • Recirculation pump relay (SPDT) • All relays are fuse protected with 2A time delay 5× 20mm cartridge fuses. To be replaced only with time-delay glass / ceramic 5× 20mm cartridge fuse of same rating. • All relays are rated for 250VAC / 30VDC 2A resistive load. *Note: For inductive loads, an appropriate external snubber circuit must be connected to prevent relay contact damage.*

Analog Outputs (**BL135 only**)	• 3 × galvanic isolated, user configurable 4-20mA outputs
	  • Current sensing resistor ≤ 500 Ω
	  • Accuracy < 0.5 % FS

Digital inputs	• 5 × galvanically isolated, powered contact, digital input
	  • Low level acid / base tank
	  • Hold mode
	  • Pool cover sensor
	  • Probe flow

Probes inputs	• HI1038-2802 digital pH probe
	  • pH, ORP, salinity, temperature sensors and a matching pin
	  • IP65 connector
	  • Galvanic isolated
	  • RS485 interface
	• HI1040-1801 digital chlorine probe
	  • Galvanic isolated
	  • RS485 interface
	  • IP65 connector
	• Air temperature sensor

Power	
Power	Input: 100 – 240 VAC; 50/60 Hz; 3A Output: 24 VDC; 7 A
External	
Casing	Wall mounted, IP65 rated, shockproof
Environment	0 to 40 °C (32 to 104 °F) maximum 95 % RH non-condensing
Dimensions	300×205×95 mm (11.8×8.07×3.7")
Weight	4100 g (144.6 oz.)

* pH and temperature range may be limited by the probe's limits.
** When measuring within ± 0.5 pH, ± 2 °Celsius, and ± 25 % of the free chlorine calibration value.

Specifications	BL130-710 Chlorinator	BL130-720 Chlorinator	BL130-730 Chlorinator
Pool size	30 m³ 7,925 gal	100 m³ 26,417 gal	150 m³ 39,600 gal
Chlorine output *	10 g/hour	20 g/hour	30 g/hour
Power	4A	5A	7A
Bipolar cell design	3 connected blades 10 floating blades	2 connected blades 5 floating blades	3 connected blades 10 floating blades
Plate dimension	100 × 61 × 1 mm	164 × 61 × 1 mm	148 × 61 × 1 mm
Required flow rate	150 to 450 L/min (40 to 119 GPM)	150 to 450 L/min (40 to 119 GPM)	150 to 450 L/min (40 to 119 GPM)
Recommended salinity	4.0 to 6.0 g/L	4.0 to 6.0 g/L	4.0 to 6.0 g/L
Features	• Grade 1 titanium substrate (1 mm) • Genuine AIS anode material • Gas sensor detects water presence	• Grade 1 titanium substrate (1 mm) • Genuine AIS anode material • Gas sensor detects water presence	• Grade 1 titanium substrate (1 mm) • Genuine AIS anode material • Gas sensor detects water presence
Reverse polarity control	2 to 12 hours (> 4 hours recommended)	2 to 12 hours (> 4 hours recommended)	2 to 12 hours (> 4 hours recommended)
Mounting position	Horizontal	Horizontal	Horizontal
Plumbing	40 mm or 50 mm bonded connection 40 mm internal / 50 mm via external coupler	40 mm or 50 mm bonded connection 40 mm internal / 50 mm via external coupler	40 mm or 50 mm bonded connection 40 mm internal / 50 mm via external coupler
Housing dimensions **	123 mm × 256 mm × 149 mm 4.8" × 10.0" × 5.8"	123 mm × 256 mm × 149 mm 4.8" × 10.0" × 5.8"	123 mm × 256 mm × 149 mm 4.8" × 10.0" × 5.8"
Operating water temperature	5 to 38 °C 41 to 104 °F	5 to 38 °C 41 to 104 °F	5 to 38 °C 41 to 104 °F
Lifespan	10,000 hours	10,000 hours	10,000 hours

* Output generated under ideal pool water conditions.
** Width × Length × Height.
Dimensions may vary without notice due to design requirements.

Specifications	HI1038-2802 pH/ORP/Salinity/ Temperature Probe	
Range	pH	0.00 to 12.00 pH
	ORP	±2000 mV
	Salinity	0.0 to 40.0 g/L
	Temperature	0.0 to 70.0 °C (32.0 to 158.0
Reference	Ag / AgCl reference electrode (3.5M K	
ORP sensor	Gold	
Junction	Cloth	
Matching pin	Titanium	
Body	PVDF	
Top thread	3/4" NPT	
Connector	DIN connector	
Maximum pressure @25 °C	3 bar (43.5 psi)	
Probe ordering codes	HI1038-2802 2 m (6'7") cable HI1038-2805 5 m (16'5") cable HI1038-2810 10 m (32'9") cable HI1038-2815 15 m (49'3") cable HI1038-2820 20 m (65'7") cable	

Specifications	HI1040-1801 Free Chlorine Probe	
Range	Free chlorine	0.00 to 10.00 ppm
	Temperature	0.0 to 40.0 °C (32.0 to 104.0 °F)
Calibration	Process, one-point calibration	
Body	PVDF	
Top thread	3/4" NPT	
Connector	DIN connector	
Maximum pressure @25 °C	3 bar (43.5 psi)	
Probe ordering code	HI1040-1801	

Specifications	BL130-900 Air Temperature Probe
Range	–30.0 to 80.0 °C (–22.0 to 176.0 °F)
Resolution	0.1 °C / 0.1 °F
Accuracy	±0.5 °C
Cable length	3 m

Ordering and pricing

Ordering information

BL135 & BL136 — X X Y Z Z

XX	20	Flow cell kit for chlorine probe
Y	1	Salt chlorinator
ZZ	10	10 g/hour chlorine output
	20	20 g/hour chlorine output
	30	30 g/hour chlorine output

BL135-20110 Salt Pool Controller with Chlorine Generator 10 g/h Output, External Dosing and Analog Outputs, including HI7014 Free Chlorine Pool Line Checker, 115/230V

BL135-20120 Salt Pool Controller with Chlorine Generator 20 g/h Output, External Dosing and Analog Outputs, including HI7014 Free Chlorine Pool Line Checker, 115/230V

BL135-20130 Salt Pool Controller with Chlorine Generator 30 g/h Output, External Dosing and Analog Outputs, including HI7014 Free Chlorine Pool Line Checker, 115/230V

BL136-20110 Salt Pool Controller with Chlorine Generator 10 g/h Output, External Dosing and Remote Cloud Connectivity, including HI7014 Free Chlorine Pool Line Checker, 115/230V

BL136-20120 Salt Pool Controller with Chlorine Generator 20 g/h Output, External Dosing and Remote Cloud Connectivity, including HI7014 Free Chlorine Pool Line Checker, 115/230V

BL136-20130 Salt Pool Controller with Chlorine Generator 30 g/h Output, External Dosing and Remote Cloud Connectivity, including HI7014 Free Chlorine Pool Line Checker, 115/230V

What's included:

Each BL135-201XX and BL136-201XX is supplied with:

- BL130-7X0 Salt chlorinator
- BL130-415 Flow cell panel
- BL130-410 Flow cell for HI1040-1801 free chlorine probe (includes mounting brackets)
- HI1040-1801 Free chlorine probe
- HI1040A Replacement membrane cap for HI1040-1801 free chlorine probe
- HI7043S Gelled electrolyte for HI1040-1801 free chlorine probe, 30 mL
- HI1038-2802 Combined pH, ORP, salinity, temperature probe
- HI7014 Free chlorine checker with reagent starter kit (6 tests) and sample cuvette (2 pcs.)
- BL130-900 Air temperature probe
- pH probe saddle for Ø 50 mm pipe
- Injector saddle for Ø 50 mm pipe
- Injector
- Valve for flow cell connection and fittings (2 pcs.)
- Valve saddle for Ø 50 mm pipe (2 pcs.)
- PVC tubing for aspiration and injection (5 m)
- Flow cell tubing (10 m)
- Peristaltic pump tubing
- Silicon oil (dropper bottle)
- Aspiration filter
- Cable gland gaskets (BL136 only)

- 4.01 and 7.01 pH buffer solution (3 sachets of each)
- 470 mV ORP test solution (3 sachets)
- 5.00 ppt salinity calibration standard (3 sachets)
- Power cable
- Quality certificates (instrument, probes, chlorinator, accessories)
- Quick reference guide with QR code for manual download

Accessories

Probes and probe accessories

HI1038-2802 pH/ORP Gold Ring/Salinity/Temperature Industrial Probe with Matching pin for BL135 and BL136, 2 m cable

HI1038-2805 pH/ORP Gold Ring/Salinity/Temperature Industrial Probe with Matching pin for BL135 and BL136, 5 m cable

HI1038-2810 pH/ORP Gold Ring/Salinity/Temperature Industrial Probe with Matching pin for BL135 and BL136, 10 m cable

HI1038-2815 pH/ORP Gold Ring/Salinity/Temperature Industrial Probe with Matching pin for BL135 and BL136, 15 m cable

HI1038-2820 pH/ORP Gold Ring/Salinity/Temperature Industrial Probe with Matching pin for BL135 and BL136, 20 m cable

HI1040-1801 Free Chlorine Probe for BL135 and BL136, 1 m cable

BL130-900 Ambient Temperature Probe with 1 meter Cable for BL13x Pool Controllers

HI1040A Membrane cap for HI1040-1801 free chlorine probe

BL120-500 Probe fitting kit

BL130-905 Simulator for BL135 and BL136

BL130-410 Flow cell for HI1040-1801 free chlorine probe (includes mounting brackets)

BL130-415 Flow Cell Panel for BL135 and BL136

BL130-409 Flow cell sensor for BL130-410 chlorine probe flow cell

HI7043 Gelled electrolyte for HI1040-1801 free chlorine probe, 30 mL dropper bottle

BL130-408 Paddle flow switch for BL13Xmain circuit

Peristaltic pump accessories

BL130-300 Pool controller peristaltic pump tubing kit (2 pcs.)

BL130-301 Pool controller peristaltic pump rotor

Salt chlorinator and salt chlorinator accessories

BL130-710 Chlorine Generator 10 g/h Output

BL130-720 Chlorine Generator 20 g/h Output

BL130-730 Chlorine Generator 30 g/h Output

BL130-711 Cell for BL130-710 chlorinator, chlorine output 10 g/h

BL130-721 Cell for BL130-720 chlorinator, chlorine output 20 g/h

BL130-731 Cell for BL130-730 chlorinator, chlorine output 30 g/h

BL130-713 Replacement cell housing for BL130-7X0 chlorinator

BL130-712 Cell power supply cable for BL130-710 chlorinator

BL130-722 Cell power supply cable for BL130-720 chlorinator

BL130-732 Cell power supply cable for BL130-730 chlorinator

BL130-714 Chlorinator cell housing threaded locking nut

BL130-715 Chlorinator gasket

Flow cell saddle and fittings

BL120-250 Injector saddle for Ø 50 mm pipe, 1/2" thread

BL120-150 Saddle kit for Ø 50 mm pipe contains:

- injector saddle (2 pcs.)
- probe saddle

BL120-263 Injector saddle for Ø 63 mm pipe, 1/2" thread

BL120-163 Saddle kit for Ø 63 mm pipe contains:

- injector saddle (2 pcs.)
- probe saddle

BL120-275 Injector saddle for Ø 75 mm pipe, 1/2" thread

BL120-175 Saddle kit for Ø 75 mm pipe contains:

- injector saddle (2 pcs.)
- probe saddle

BL120-550 Probe saddle for Ø 50 mm pipe, 1 - 1/4" thread

BL120-563 Probe saddle for Ø 63 mm pipe, 1 - 1/4" thread

BL120-575 Probe saddle for Ø 75 mm pipe, 1 - 1/4" thread

BL120-603 Elbow for glass flow cell

BL120-402 Flow cell tubing, (10 m)

BL120-400 Flow cell probe adapter kit

BL120-401 Flow cell valve

BL120-604 O-ring for glass flow cell

BL120-501 Protective saddle cap, 1 - 1/4" thread

Injectors and fittings

BL120-200 Pool controller aspiration filter

BL120-201 Pool controller injector, 1/2" thread

BL120-602 Metal nipple 12 (2 pcs.)

BL120-601 Plastic nipple 2 with O-rings

BL120-903 Cable gland protective kit (6 pcs.)

BL120-202 PVC aspiration and injection tubing (10 m)

BL120-204 Aspiration tubing (100 m)

BL120-205 Injection PE tubing (100 m)

Solutions

BL136-70 Pool Line Maintenance and Calibration Kit for Chlorine, pH and ORP Probes used in BL135 and BL136

BL136-70-30 Pool Line Maintenance and Calibration Kit for Chlorine, pH and ORP Probes used in BL135 and BL136 (30 pcs/pack)

HI700044P Pool Line pH 4.01 Calibration Buffer Solution Sachets (25 x 20 mL)

HI700074P Pool Line pH 7.01 Calibration Buffer Solution Sachets (25 x 20 mL)

HI700104P Pool Line pH 10.01 @ 25°C Calibration Buffer Sachets, (25 x 20mL)

HI700224P Pool Line 470 mV @ 25 °C ORP Test Solution for Platinum and Gold Electrodes Sachets (25 x 20 mL)

HI70224L Pool Line 470 mV @ 25 °C ORP Test Solution for Platinum and Gold Electrodes, 500 mL bottle

HI7003004P Pool Line Storage Solution for pH and ORP Electrodes Sachets (25 x 20 mL)

HI703004L Pool Line Storage Solution for pH and ORP Electrodes, 500 mL bottle

HI7006014P Pool Line Electrode Cleaning Solution for General Use Sachets (25 x 20 mL)

HI70614L Pool Line Electrode Cleaning Solution for General Use, 500 mL Bottle

HI70774L Pool Line Electrode Cleaning Solution for Oils and Lotions, 500 mL Bottle

HI700234P Pool Line 5.00 ppt @ 25°C Salinity Calibration Standard Sachets, (25 x 20mL)

HI700244P Pool Line 35.00 ppt @ 25°C Salinity Calibration Standard Sachets, (25 x 20mL)

HANNA® instruments

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