QUICK REFERENCE GUIDE

BL131 Swimming Pool Controller

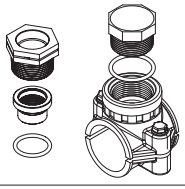
Dear Customer, thank you for choosing Hanna Instruments.
For more information about Hanna Instruments and our products, visit www.hannainst.com or e-mail us at sales@hannainst.com. For technical support, contact your local Hanna Instruments office or e-mail us at tech@hannainst.com.

Please scan the **QR code** or use the link below to download the user manual.
https://manuals.hannainst.com/BL131

Package Contents

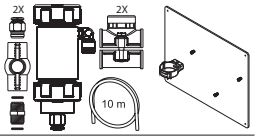
BL131-10 (in-line installation)

- Electrode fittings
- Electrode saddle, Ø 50 mm pipe

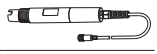


BL131-20 (flow cell installation)

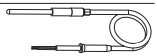
- Panel mounted flow cell
- Flow cell panel
- Valve for flow cell with fittings (2 pcs.) with 10 m tubing
- Valve saddle, Ø 50 mm pipe (2 pcs.)



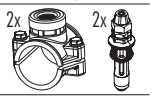
- HI1036-1802 Combined electrode



- BL130-900 Air temperature probe



- Injector saddle for Ø 50 mm pipe (2 pcs.)
- Injector (2 pcs.)



- Peristaltic pump tubing (2 pcs.)
- Silicone oil (dropper bottle)
- PVC aspiration and injection tubing, 10 m
- Aspiration filter (2 pcs.)



- 4.01 pH buffer solution, 3 sachets
- 7.01 pH buffer solution, 3 sachets
- 470 mV ORP test solution, 3 sachets

- Power cable
- Quick reference guide
- Quality certificates (probe, instrument, accessories)

Hanna Instruments is committed to developing and deploying digital solutions with a positive impact on the environment and climate.

All Hanna instruments conform to the CE European Directives and UK standards, and our production facilities are ISO 9001 certified. BL131 is warranted for a period of two years (probes six months) against defects in workmanship and materials when used for their intended purpose and maintained according to instructions.

Please retain for future use.

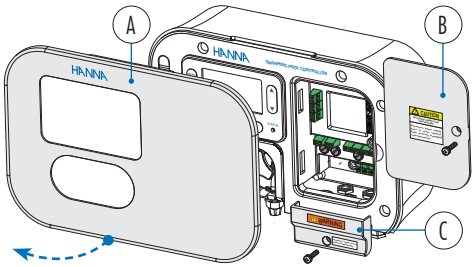
QRBL131 05/24

IMPORTANT SAFETY INSTRUCTIONS
Read and follow all instructions.
Save these instructions.

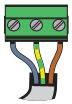
- Electrical connection must be carried out by specialized personnel.
- Do not make electrical connections with device connected to power.
- Do not run other cables through the selected power cable gland.
- Have a disconnect switch installed in the vicinity of the instrument to ensure electrical circuit is de-energized for installation.

Connecting to Power

- Remove the magnetic faceplate (A).
- Loosen and remove the cover screw (B) first. Then remove the cover-up panel that accesses the three-terminal power supply board. The raised, low-voltage terminal is now accessible.
- Loosen and remove the small, safety cover-up screw (C). Then remove the safety-cover panel that protects the high-voltage terminal board. High-voltage paths are now accessible.
- Remove the blank plug and thread the cable through the designated power cable gland. Select gland (8) closest to the power connector (9).
- Connect the power cable leads to the removable terminal connector marked **POWER INPUT**.
- Follow **L** (live), **PE** (protective earth), **N** (neutral) lead markings for correct wiring of output leads.
- Carefully put wired terminal connector into place on the board (9).
- Replace the small safety cover-up panel.



ELECTRICAL CONNECTORS COMPARTMENT
Disconnect power supply prior to cover removal.
Refer servicing to qualified service personnel.



POWER INPUT	
N	Neutral
PE	Protective Earth (Protective Ground)
L	Line (live)

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www.hannainst.com

Wiring outputs, inputs, air temperature sensor

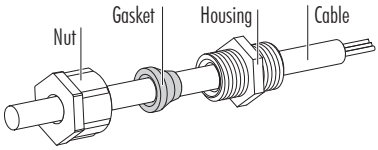
- Low voltage connections

  A01 to A03 Analog Outputs (1), AIR TEMPERATURE SENSOR (2), DIGITAL INPUTS (3) are made to the raised terminal block

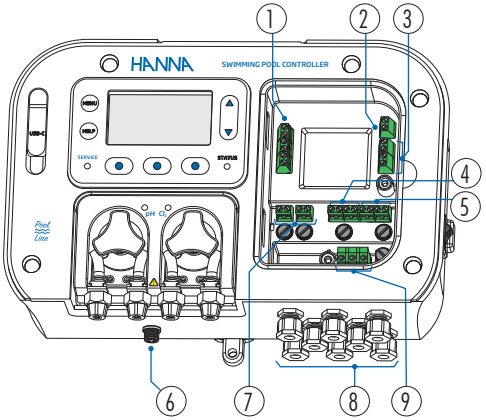
- High voltage connections

  RECIRCULATION PUMP (4), ALARM (5), ACID/BASE and CHLORINE PUMP (7), POWER (9) are made to the seated terminal blocks

1. Unscrew the nut of the selected cable gland (8). Remove the blank plug.
2. Thread the cable through the nut and gasket, into the housing.

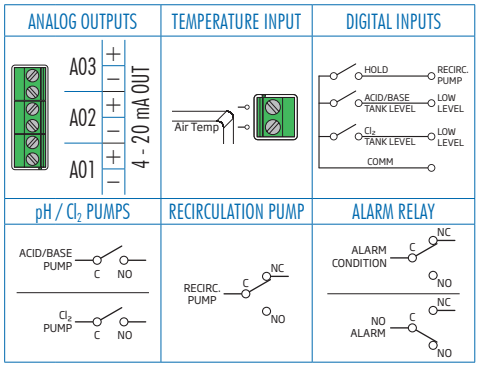


3. Feed the cable enough for the wires to reach their ports.
4. Insert the wire into the designated port and tighten the screw until the wire is properly torqued.
5. Follow ⊖ ⊕ lead markings to ensure that output leads are wired to the correct position on the main board.
6. Insert the gasket into the housing.
7. Turn the nut clockwise to tighten.



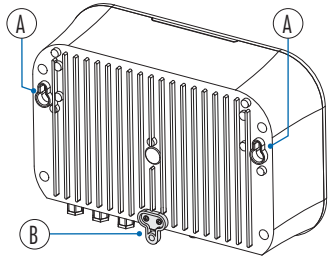
DIN probe connection

- Connect the HI1036-1802 to the DIN connection port (6).
- Align pins and key then push the plug into the socket.
- Rotate collar to lock in place.



Securing the device

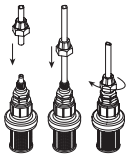
The controller can be mounted on a wall (A, B) or in the flow-cell panel (supplied with BL131-20).



(A) Mounting hole
(B) Wall hook plate

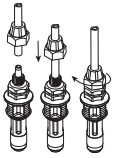
Installing the aspiration filter

- Cut aspiration tubing to reach between pump inlet and aspiration filter; place compression nut on the tubing.
- Place end of tubing on the filter.
- Tightly screw the compression fitting on the filter.
- Slide pump inlet compression fitting onto tubing.
- Slide end of tubing over pump tubing fitting.
- Slide compression fitting over tubing.



Installing the injector

- Cut injector tubing to reach between injector saddle and pump outlet; place compression nut on the tubing.
- Place end of tubing on the injector.
- Tightly screw compression fitting on the injector.
- Screw the injector in the saddle.
- Slide pump tubing compression fitting onto tubing.
- Slide end of tubing over pump tubing fitting.
- Slide compression fitting over tubing.



***Note**: Download user manual for components and suggested installations.*

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