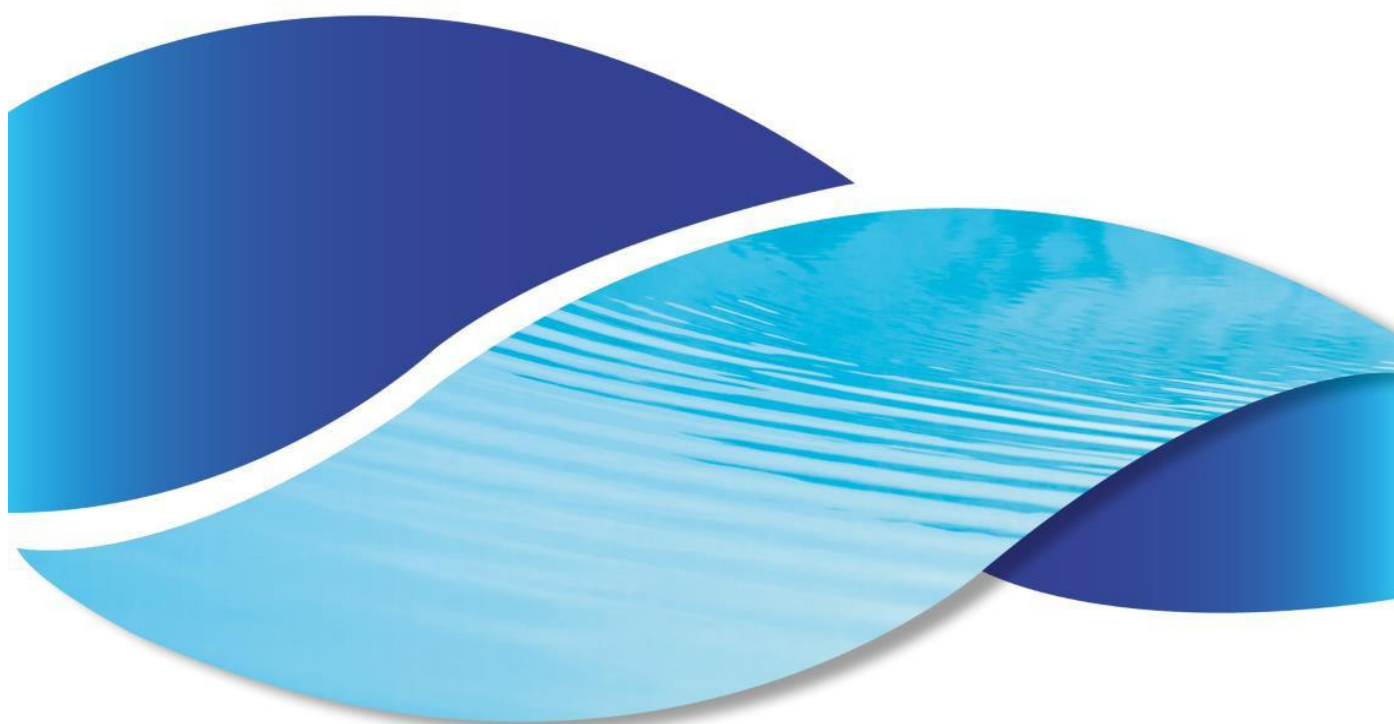




Wifipool Measuring and Steering Box Connect Pro with accessories quick start guide



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INTRODUCTION

The "Wifipool Measuring and Control Box Connect Pro" allows you to realize the following measurements: the pH, redox (chlorine), 3x temperature, flow, 3x level, pressure and conductivity. Via 4 relays, 4 pool devices can be switched on and off. Each measurement and control box has an Ethernet connection and – from mid-2024 – an RS485 interface for controlling external devices such as heat pumps, frequency-controlled pumps, salt electrolyses, etc.

To install and use the measuring and control box, you need to take a number of steps:

- | | | |
|-----------------------------|--|-------------------------|
| 1 Wifipool App Installation | 2 Connecting measuring and control box with wifi network and telephone | 3 calibration pH and RX |
|-----------------------------|--|-------------------------|



This manual contains the necessary information for installation, troubleshooting, and maintenance. Please read the entire manual on www.pooltronics.eu before installing and commissioning the product.

It is possible to have the measuring and control box equipped with accessories of your choice.

SAFETY

To ensure optimal product use and avoid accidents, we recommend that you read this manual carefully before installing and using the product. It is imperative to strictly follow the instructions for your safety and proper functioning of the salt chlorinator. Failure to heed safety warnings can have serious consequences, including serious injury, property damage, and even life-threatening situations.

General

- Installation personnel should read this manual carefully before beginning installation. In case of incorrect or incorrect operation, contact your supplier.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge...
- Improper installation may cause an electrical or chemical hazard, resulting in serious injury.
- Always wear safety gloves and goggles when working on the installation.
- If you are not familiar with the pool filtration system and dosing equipment:
 - Read the entire installation and operating instructions before using the dispensing equipment.

- Only a qualified installer, center, individual, or authorized dealer can repair this product.
- Never modify anything without consulting your supplier or professional pool contractor.
- In case of damaged parts, use only original spare parts. Failure to do so will void your warranty.
- Maintenance and operation should be carried out according to the recommended time and frequency, as stated in the manual.
- Do not install the device in an area where the electronic components of the chlorinator may be damaged by moisture or rain.
- It is recommended to install the water treatment unit in a bypass configuration.
- Keep the installation and chemicals out of the reach of children. Always wear safety gloves and goggles when working on the installation.
- In case of damaged parts, it is preferable to purchase replacement parts from the manufacturer. Use only original standard parts. Failure to do so will void your warranty.

Electric

- Disconnect all electrical supplies during installation.
- The electrical installation must be carried out in such a way that:
 - The electrolysis and acid pump cannot work if the filter pump does not work. This can be done by adding a flow switch/flow controller ZWMX3552-P to the installation or by using the same feed line as the filter pump.
 - The electronics, the unit, or any part of the unit must NEVER be connected to an output of a frequency converter or drive.
- If a frequency converter is used, we recommend placing it at least 3 meters from the dosing unit, using a separate electrical circuit for the inverter and the salt electrolysis unit, and verifying the interactions between frequency converter and pH – Redox measurement (check that pH and Redox do not deviate when switching the converter on and off).
- All external power supplies and adapters for pool equipment must be connected to a power source with a 30 mA RCD.
- Make sure all equipment and pool water are properly grounded. The pool pipe is grounded via an inline grounding to an independent grounding pole.
- Before performing any maintenance or work, make sure that the salt chlorinator is unplugged, that all machines are turned off, and that the power source is turned off. Easy operation: The device is very easy to operate.
- NEVER make any adjustments to the dispensing equipment.
- There is no sound alarm on our devices, only an alarm on the screen.

Chemical

- The salt electrolysis must be located downstream of pool accessories such as heating, UV lamp, filter, etc.
- The salt electrolysis plant will generate chlorine and hydrogen gas. Detectors in the unit will stop production if an excess of these gases is detected. It is therefore mandatory to install the unit in the direction of flow. The unit can be installed horizontally or upright (with flow from bottom to top and the electrolysis cell pressed in the direction of the arrow in the housing of the cell).

- To ensure the proper operation of the salt chlorine generator, check the electrolysis cell every three months or after cleaning the filter, whichever comes first.
- Before removing the electrolysis cell, make sure the salt chlorinator is disconnected from the electricity for 5-10 minutes.
- After removing the electrolysis cell, check for flaky sediments, dirt, or light-colored layers on the inner surface. Clean with water.
 - If white calcified substances are present on the titanium plate, soak it in kitchen vinegar for an hour or more to remove the calcified material.
 - If flushing with water does not remove the deposits, use a plastic brush for cleaning. Avoid using a metal brush.

PRODUCT OVERVIEW

The Wifipool Connect Pro measurement and control box, while functional in its own right, requires expansion with measurement sensors and selectable plug options to make it fully operational. This customization option gives users the flexibility to customize the measurement and monitoring capabilities to their specific needs.

At the heart of this system is the Wifipool Gen 2 PCB, which offers a comprehensive range of functionalities for monitoring and managing swimming pools. This PCB can be used to perform crucial measurements including pH, chlorine concentration (RX), flow rate, water level (in three zones), temperature (in three zones), pressure, and conductivity (for salinity measurements).

SPECIFICATIONS & ACCESSORIES

Internal code	Accessory/ Type		Remark
BWMX2000-P	No		230V
BWMX2020-P	BNC coupling pH - measurement		BNC Coupling
BWMX2024-P	BNC Coupling RX Measurement		BNC Coupling
BWMX2010-P	Temperature measurement		
BWMX2011-P	Flow switch measurement		
BWMX2016-P	Level switch measurement		Options: for swimming pool or for pH or Chlorine Drum
BWMX2012-P	Pressure measurement		

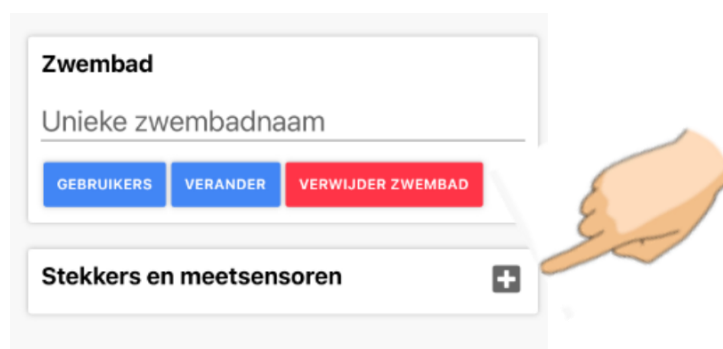
BWMX2022-P	Conductivity measurement		
BWMX2019-P	Extra plug - Control		Max 4 plugs 240V Max 4x 16A
BWMX2027-P	Additional contractor 25A- Control		
BWMX2003-P	Additional Peristaltic Pump Control		Dosage pH, Chlorine, anti- algae, flocculant ...
BWMX2003-P	Additional Frequency Converter- Control		
BWMX2030-P	Additional Solenoid Valve Normally Open- Control		Ability to combine Normally open and Normally closed for bypass
BWMX2030-P	Additional Solenoid Valve Normally Closed- Control		Ability to combine Normally open and Normally closed for bypass

Each measurement and control box has an Ethernet connection and – from mid-2024 – an RS485 interface for controlling external devices such as heat pumps, frequency-controlled pumps, salt electrolyses, etc.

INSTALLATION OF WIFIPOOL APP AND CONNECTION

To get started, open the Wifipool application from the App Store or Google Play Store. After installation, proceed to log in with your existing credentials or create a new account if you are a new user.

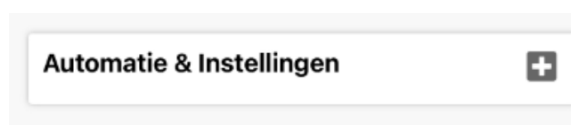
Once logged in, navigate to the option to add a new pool within the application. Click the icon marked with a plus sign next to "Plugs & Sensors." Here, you will be asked to select "Start Scan" and scan the provided barcode on paper or on the device's box.



Next, you will be asked to choose the Wi-Fi network you want to connect to your pool equipment. Select the appropriate network from the list displayed.

After the pairing is successful, you will have the option to continue with or without the use of a network cable. Should you choose to dispense with the network cable, it is imperative to ensure a stable connection to your Wi-Fi network for optimal performance.

Automatically, the automations will also appear in your list. You can read more about automations in the Wifipool App and Simple Device Manual and in the full product manual.



See the manual "Wifipool app and simple devices", for full instructions.

PRESENTATION

In addition, the PCB offers connection options for up to four control devices, such as AC drives, peristaltic pumps, salt electrolysis systems, UV lamps and automatic valves. An Ethernet cable connection is also provided, as an alternative to wireless connectivity, for a reliable internet connection. With these advanced capabilities, users can take their pool management to the next level with optimal control and monitoring.

Provide a physical installation on solid ground, in a dry environment, and in an environment with a strong Wi-Fi signal or Ethernet connection. The Wi-Fi pool system is connected to a 230-12 volt power supply, out-of-the-box it is connected to the pH pump and an RX pump, there is also a flow switch connected directly to the gen-2 PCB. Look at Figure 1 for more information on cabling

NOTE: There are circuit boards of 12V (like this example) but also of 24V. A 12V adapter does not work on a 24V plate and vice versa!

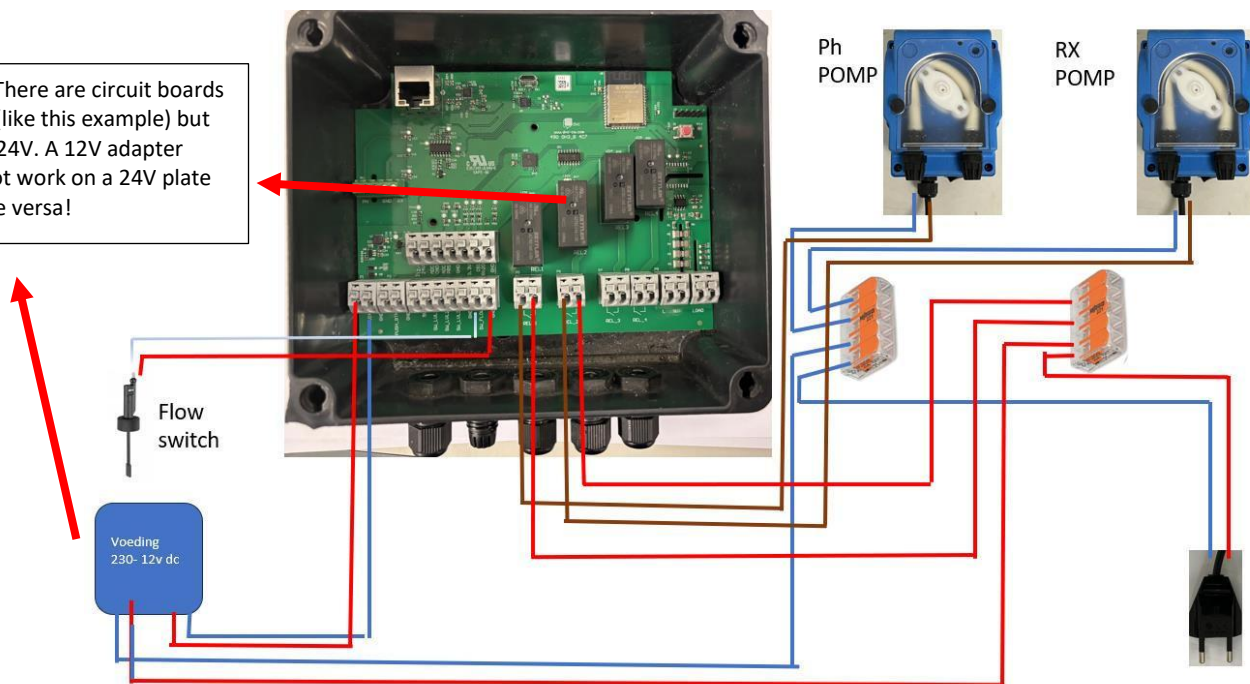
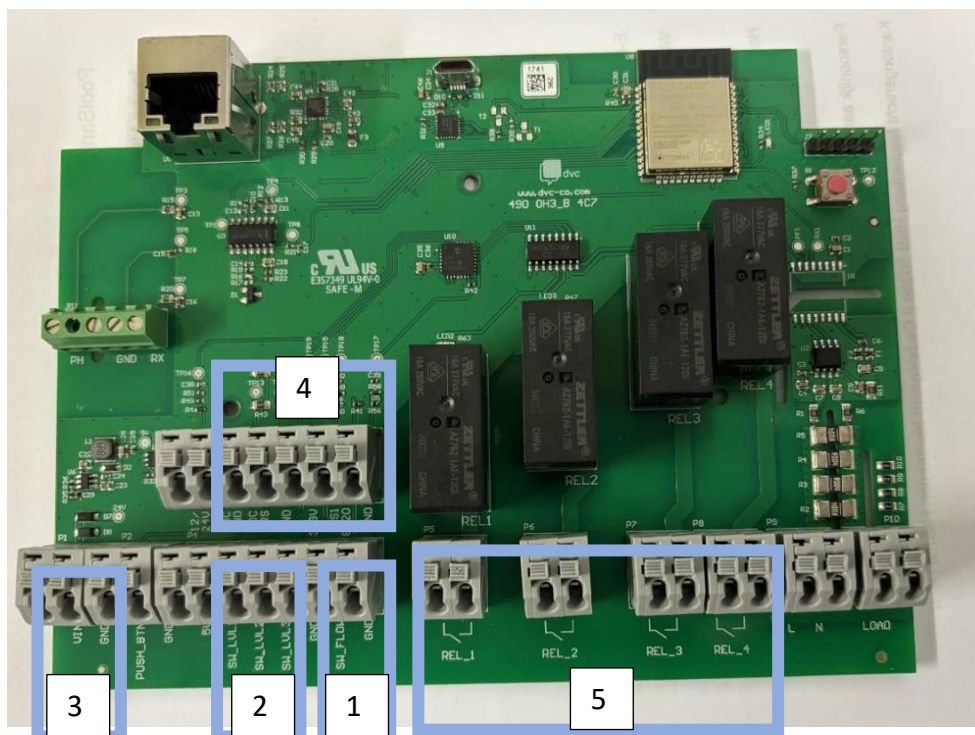
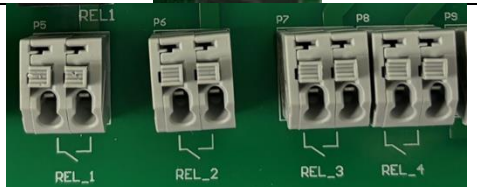


Figure 1



1		Flow switch
2		Level switches
3		Nutrition
4		Temperature
5		Relays

ERROR CODE AND POSSIBLE SOLUTIONS

Error code	Reason	Remark	Solution
Ethernet cable is paired but can't connect to device	Possible faulty or incorrect connection		Check whether or not the LED light is flashing when the cable is connected. If the light is flashing, ethernet is not connected. If the light is not flashing, Ethernet is connected.
Wifipool can't connect to your network	Your device may not be near your router.	There is no assistance regarding Wifi problems	Wait a while after seeing your error code and see if your device is definitely not connected. Start the pairing process again.
Paired, ethernet out. No connection, dot stays red	Wrong password or SSID		Connect back to Ethernet, delete the device and install it back.