USER MANUAL

EASY WATER ANALYSIS

for pool and spa

A product from

ZAVEPOWER
INNOVATIVE TECHNOLOGY

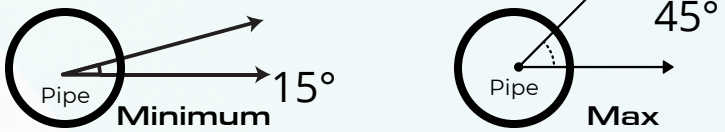
E.W.A INSTALLATION

lntroduction

In-line devices necessitate the installation of a probe within a pipe or water tank by a qualified professional installer. Once the hardware is set up, you can download our user-friendly app for free to receive data from your device anytime and anywhere. It is essential for the installer to read, comprehend, and adhere to these instructions.

General Requirements

All pipes must be installed according to the lines and grades indicated in the drawings. The contractor is responsible for ensuring that trench water, mud, sand, or sewage does not enter the pipe during the installation process. Probes should remain moist at all times and must be installed at a minimum angle of 15 degrees to prevent drying out.



WARNING!!

Never submerge probe cables or communications dome.

Failure to follow instructions as set out in this document may void the product warranty.

The probe will need to be calibrated periodically.

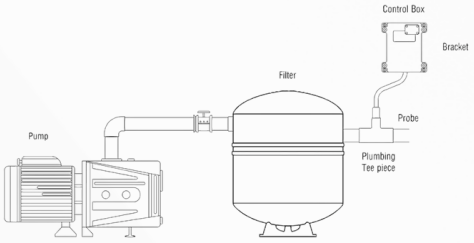
Contact your supplier for more information.

Mounting a probe inline:

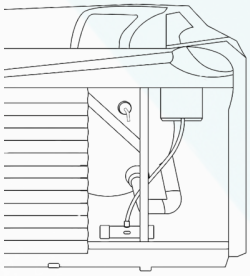
The probe is connected to a communications dome, as shown in the image below. The dome should be mounted on a wall/pole close to the probe, using the bracket provided, and placed as high as possible.

IMPORTANT: The communications box should not be submerged. It is IP67 rated, but care should be taken to ensure it stays dry. See a complete inline installation example below.

Installation in swimmingpool



Installation in Hot tub



CAUTION: These instructions are intended for use by professional plumbers who are trained in the proper use of power and hand tools, using appropriate safety precautions (including eye protection).

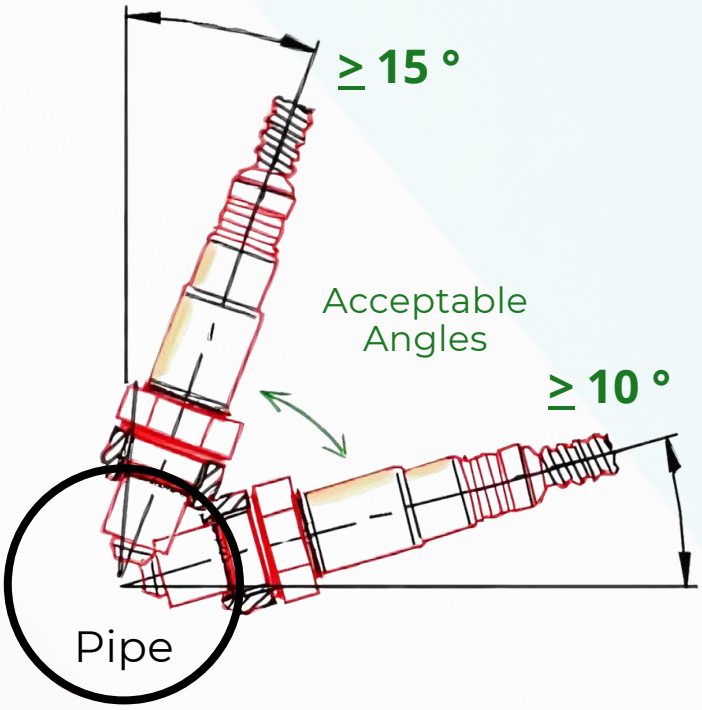
Step 1: Identify the correct installation point.

When installing an in-line device, ensure that it is installed in the pvc pipe, after the filter,
where possible, in order to keep debris from damaging the probe. For applications where no filter is in use, install the probe where minimal debris is present.

Ensure that the probe is installed at an angle of no less than 15° with the tip facing down, as this will ensure that the probe tip is submerged (or damp when the pump is
switched off and that there are no air bubbles affecting the accuracy of readings.
The probe should never be installed with the tip facing directly upward or downward, even if it is in the water flow.

Ensure that the tip is inserted fully into the pipe for accurate measurements. As with all ProAutomation probes, please keep the probe cap safe for future use. See examples on the right of the correct probe angle.
All scientific probes require periodical calibration.

We recommend doing a reference test every 12-24 months to ensure accurate readings. Contact your supplier for calibration
support if needed



Step 2: Drill a hole into the pvc pipe for the probe to be mounted.

You will need a 20 mm Hole Saw Drill Bit and an electric drill as seen here.

Note: This is NOT included in the box and should be sourced separately.
Next, fit the drill bit onto the electric drill and drill a 20 mm hole into the pvc pipe at the selected location.

CAUTION: Always take extreme care when working with electrical equipment near water to avoid severe injury or death.

Step 3: Assemble the saddle clamp and probe adapter.

The saddle clamp included in the box needs to be assembled as shown below.
Ensure that the O-Ring is fitted into the circular indentation on the top half of the saddle clamp. No O-ring is required on the bottom half.
Use a generous amount of plumbing tape/ Teflon tape (not included) on the screw thread of the probe adapter before screwing it into the saddle clamp.

Step 4: Fit the saddle clamp around the pvc pipe or hose

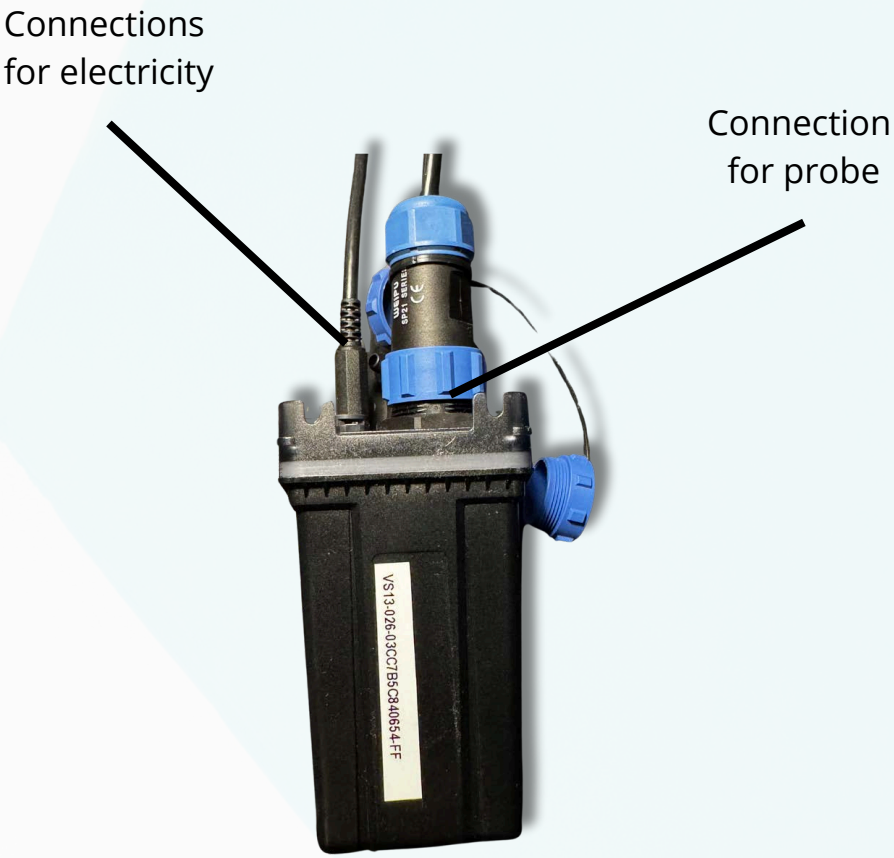
Fit the saddle clamp and probe adapter around the PVC pipe so that the adapter lines up with the hole and secure with nuts and bolts. If pipe or hose is 2 inch, use the spacer that is included.

Step 5: Insert the probe into the probe adapter.

Finally, remove the plastic protective cap from the probe and screw it into the probe adapter.
Keep the protective cap safe for future use.

The plug screws into the
saddle to close it in case you need to remove the probe temporarily in the future.

Step 6: Connect probe to Controlunit



Step 7: Connect control unit

Connect to electricity from 230v, Balboa or Gecko solution.
(Depending on your version)

Step 7: Connect control unit to Wi-Fi

Connect to electricity from 230v, Balboa or Gecko solution.
(Depending on your version)

Android:

1. Go to your phone's app store and search for 'ESP Config' (See below image)

Or scan QR code

iOS:

1. Go to your phone's app store and search for 'Esspressif Esptouch'
(See below image)

Or scan QR code

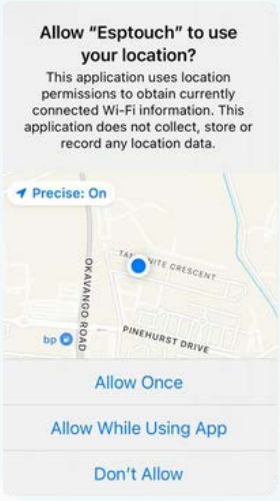
MAGNET RESET TO CONNECT UNIT TO Wi-Fi

Use a magnet to reset the device
-Place a magnet on the top of the device for 10 seconds or until the LED starts flashing Green.
(See below image)
If Step 1 fails then try moving the magnet over slightly and repeat

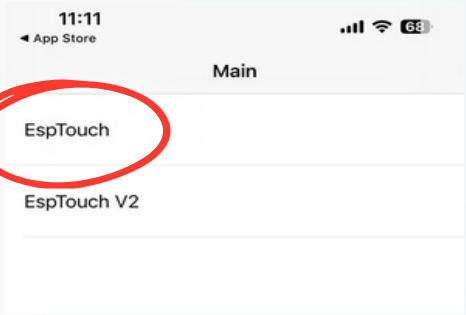
Connect to your Wi-Fi

Step 1.
Go into the downloaded app ‘Esspressif Esptouch’
Make sure the device LED is flashing Green

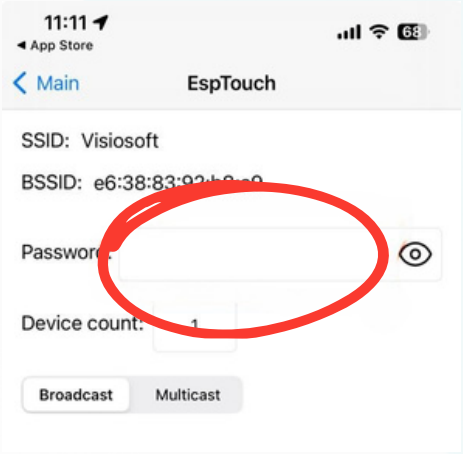
Step 2.
Tap “Allow While Using App” for location permissions



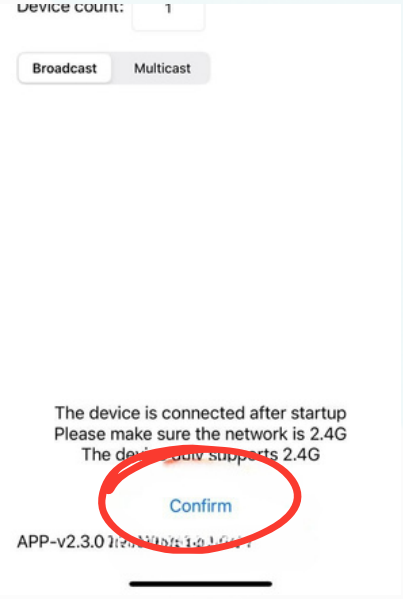
Step3.
Tap “EspTouch”



Then input your WiFi Network password



Step 4.
Tap “Confirm”



Troubleshooting

The app will not confirm that the device is connected but if the LED has changed to
solid Green, then the device is connected to your WiFi network.

Wait until the screen times out and then check to see if the LED on the device has changed to solid Green.
If the LED has not changed to solid Green then disconnect the power supply, wait 15
seconds and repeat the process

Be sure to have the app ready when you put the device into configuration mode.
Remember the app is just a tool to connect the device to WiFi

If LED is steady green, it means the device is connected to WiFi.
Then you will get email with Activation link to verify his email address

Step 8: Access E.W.A

Start your browser on your smartphone.
type in the adress: **http://ewa.proa.live**

Register your account and follow the instructions to register your probe.

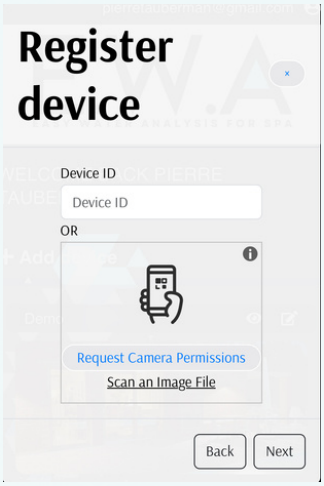
Select if its a pool or spa you have installed E.W.A on.

Your device ID i on the controlunit.
You only type in the numbers and letters marked.
XXXX-XXX-03CC7B5C840654-XX

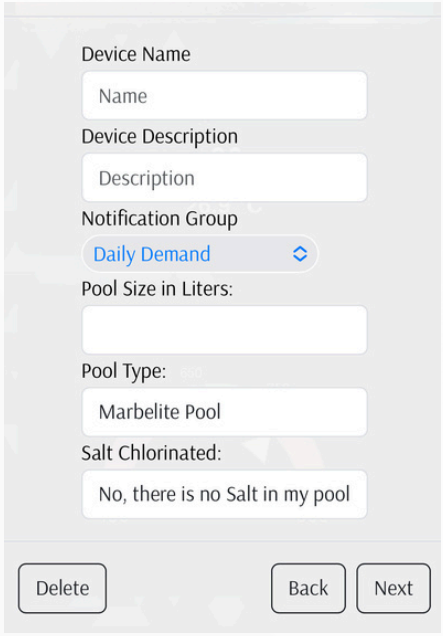
Step 8: Setup up E.W.A

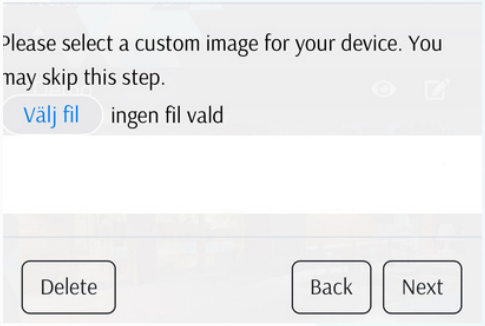
1. Register your Spa or Pool

2. Enter your DeviceID



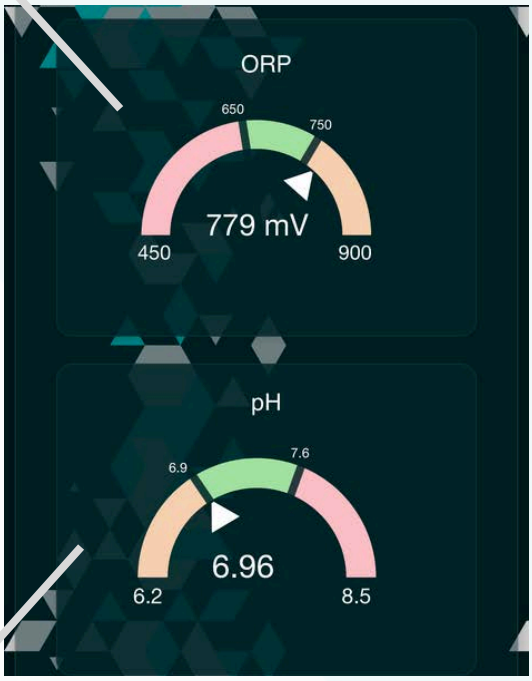
3. Enter fields regarding Spa or pool





ORP (Oxidation-Reduction Potential) measures the effectiveness of your spa's sanitization process by indicating how well disinfectants like chlorine or bromine are working to keep your water clean and free from harmful contaminants. A higher ORP value means your spa water is effectively eliminating bacteria and other unwanted particles.

With E.W.A., you can monitor your spa's ORP levels in real time via your smartphone, ensuring that your water remains safe and crystal clear without the hassle of manual testing. By maintaining the right ORP levels, you protect your spa, your health, and enjoy a worry-free, relaxing experience.



pH measures the acidity or alkalinity of water and plays a crucial role in maintaining a balanced and comfortable spa experience. The ideal pH range (between 7.2 and 7.8) ensures that your spa water is gentle on your skin and eyes while allowing chemicals like chlorine to work effectively.

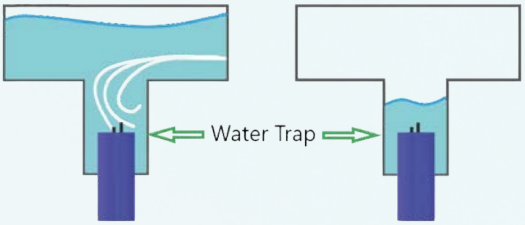
With E.W.A., you get continuous monitoring of pH levels directly on your smartphone, making it easy to keep your water perfectly balanced. No more guesswork or manual testing – E.W.A. helps you optimize water quality with minimal effort, so you can spend more time enjoying your spa and less time maintaining it!

Troubleshooting

There area few common problems when it comes to mounting a probe inline.

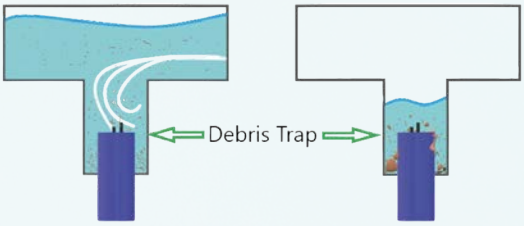
1. Water Trap

Water will collect in a trap, and result in inaccurate measurements because the water moves much slower in the trap. When you increase the flow rate or pressure in the pipe, it will flush the trap and the readings will normalize. However, this angle of mounting is not recommended because the readings will not be accurate.



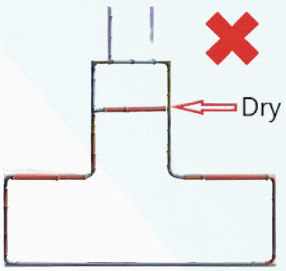
2. Debris Trap

Like water, debris will collect in a trap and cause inaccurate readings. The debris might be minute particles, like undissolved chemicals or bigger, like sand, that can cause damage to the probe.



3. Probes Drying out

Aqua-Spec probes need to be kept wet, if they out, they will get damaged and cause unreliable and inaccurate readings. As long as the probe is in a closed system the probe will not dry out.



4. Winterstoring

To ensure the longevity and functionality of your E.W.A probe, it must not dry out during winter storage. Always store the probe in water, using the cap provided at delivery to seal it properly. This is a preventive measure, and we cannot guarantee the probe's functionality if stored dry or improperly after dismounting.

Additionally, we do not recommend draining your spa during winter or in conditions where there is a risk of freeze damage. This practice should be avoided as it can lead to serious issues and damage to your spa system.

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Email: support@zavepower.com

Attribute

Product Name	E.W.A – Easy Water Analysis
Model Number	ZEWA-100
Dimensions	
Weight	
Material	High-quality plastic
Protection Class (IP)	IP65 – Dustproof and water-resistant
Operating Voltage	12V DC
Power Consumption	Max 10W
Wireless Connectivity	Wi-Fi
Sensors	pH, ORP and Temperature
pH Range	0 ~ 14 pH
Zero Potential (E0)	7 pH
Pressure Range	0.6 MPa
Temperature Range	0 ~ 80°C
ORP Range	-1500 mV ~ +1500 mV
Accuracy	±0.1 pH, ±0.5°C
Update Frequency	Every 60 minutes
Communication Standards	Wi-Fi 802.11 2,4 GHz b/g/n
Wireless Range	Up to 20 meters (line of sight), Wi-Fi-Repeater is optional
Compatibility	Spapilot app (iOS/Android)
Applications	Swimming pools, spas, and other water management systems
Operating Temperature	-20°C to +50°C
Storage Temperature	-30°C to +60°C
Certifications	CE
Installation Requirements	20 mm drill to make hole in pipes.
Maintenance	Sensors is calibrited from start, but needs calibration every 12 to 24 months, recommended to replace the sensor after 24 month
Package Contents (choosable)	EWA unit, power cable,Gecko compatible cable, Balboa Compatible cable , standard 230-volt connection & installation manual
Special Features	*Gel-filled reference system, no electrolyte refilling required* *Unique structure preventing pollution and blockage* *Quick response*

General Terms and Conditions for EWA Water Analysis Product

1. Area of use

EWA is a water analysis product designed to measure and monitor water quality in private and commercial pools. The product is not intended for any other use and should be handled according to the specifications provided in the user manual.

2. Installation and Maintenance

The product must be installed and maintained according to the manufacturer's instructions to ensure proper operation. Any damages or defects that occur due to improper installation, use, or maintenance are not covered by the warranty.

3. Limited Liability

EWA is provided to improve the maintenance of water quality, but the manufacturer is not responsible for the consequences of any incorrect readings. The customer is responsible for regular monitoring and maintenance of the pool.

4. Warranty conditions

The manufacturer provides a limited warranty on the EWA product, as specified below.

Warranty terms for EWA Water Analysis Product

1. Warranty period The warranty is valid for 24 months from the date of purchase. Proof of purchase, such as a receipt or invoice, is required for the warranty to apply.

2. Scope of the warranty

The warranty covers:
• Defects in materials and workmanship.
• Free repair or replacement of defective components.

The warranty does not cover:
• Wear parts or components that require periodic replacement due to normal use, e.g. the probe
• Damage caused by incorrect installation, careless handling, changes to the product, or external influences such as moisture, extreme temperatures, or chemical substances.

3. Warranty procedure

To use the guarantee, the customer must:
• Contact the manufacturer's customer support and describe the problem.
• Provide proof of purchase and other necessary information.
• If the manufacturer determines that the product is covered by the warranty, instructions are sent for how to repair or replace.

4. Limitations in the Warranty

The warranty is limited to repair or replacement of defective components. The manufacturer is not responsible for indirect damages, such as lost income or costs incurred as a result of product defects.

5. Refund

In cases where repair or replacement cannot be offered, the manufacturer reserves the right to offer a refund corresponding to the current value of the product.

6. Contact information for Warranty matters

For questions about the warranty or to make a warranty claim, contact our customer service at:

Contact

support@zavepower.com

www.zavepower.com

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