

USER MANUAL

EASY WATER ANALYSIS

for outdoor spa

E.W.A INSTALLATION

Introduction

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.



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 communication box. The box should be mounted on a wall/pole close to the probe, 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.

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).

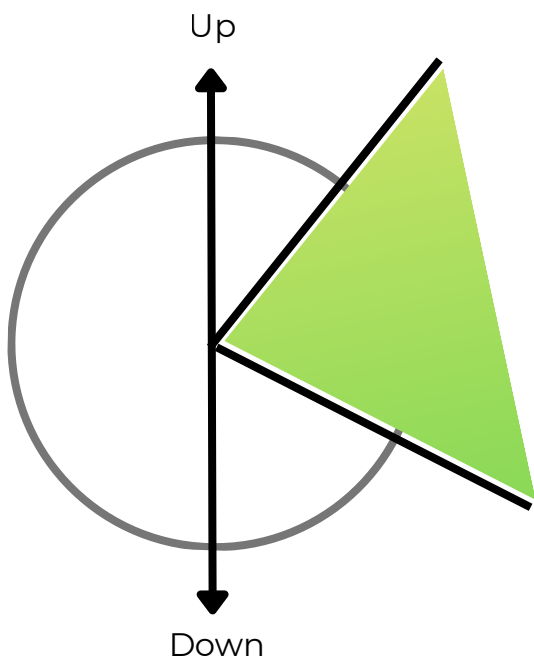


Step 1: Identify the correct installation point.

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. 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.

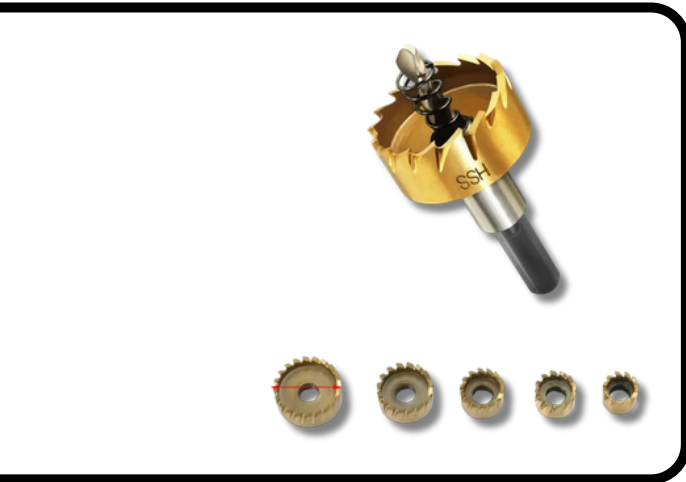
We recommend doing a reference test every 12-24 months to ensure accurate readings. Contact your supplier for calibration support if needed



The positioning of the probe is crucial. A straightforward way to visualize this is by placing the probe at an angle corresponding to between 2 and 4 o'clock on a clock face.

Step 2

Step a 1 (Addon): 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 a 2: 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.

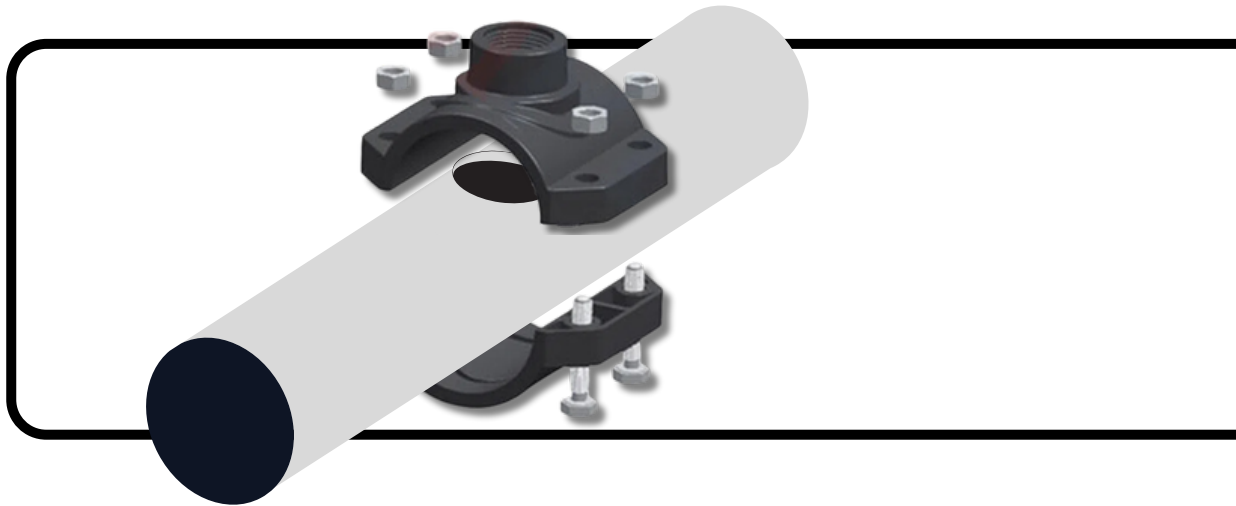
Use a generous amount of plumbing tape/ Teflon tape (not included) on the screw thread of the probe adapter before screwing it into the saddle clamp.



Step a 3: (Add-on)

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. (It's only available in 50 mm)



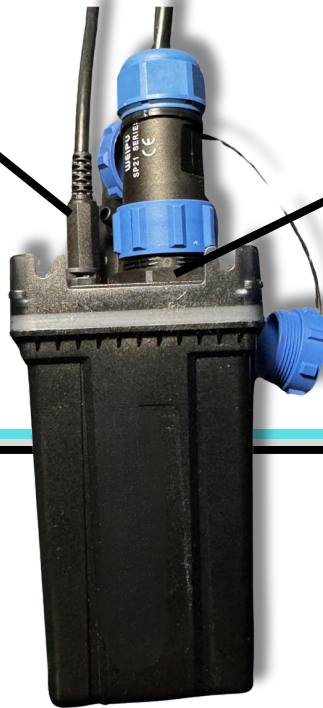
Step a 4: Insert the probe into the probe adapter.

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

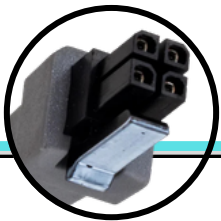
Connections
for electricity



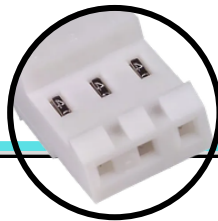
Connection
for probe

Step 7: Connect control unit

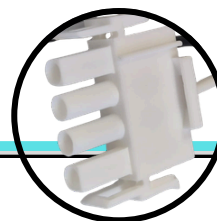
Connect to electricity from *230v, Balboa or Gecko solution.
(Depending on your version)



Balboa



Gecko V2



Gecko V3



220 v
*Addon



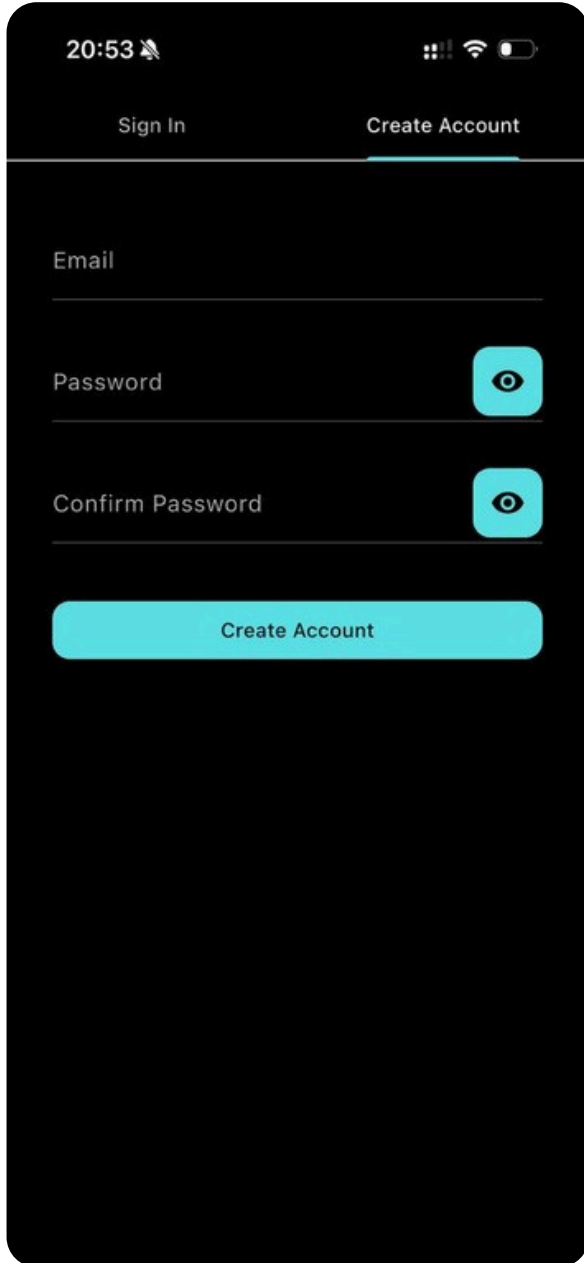
Step 8: Setup your E.W.A app

Download the app.

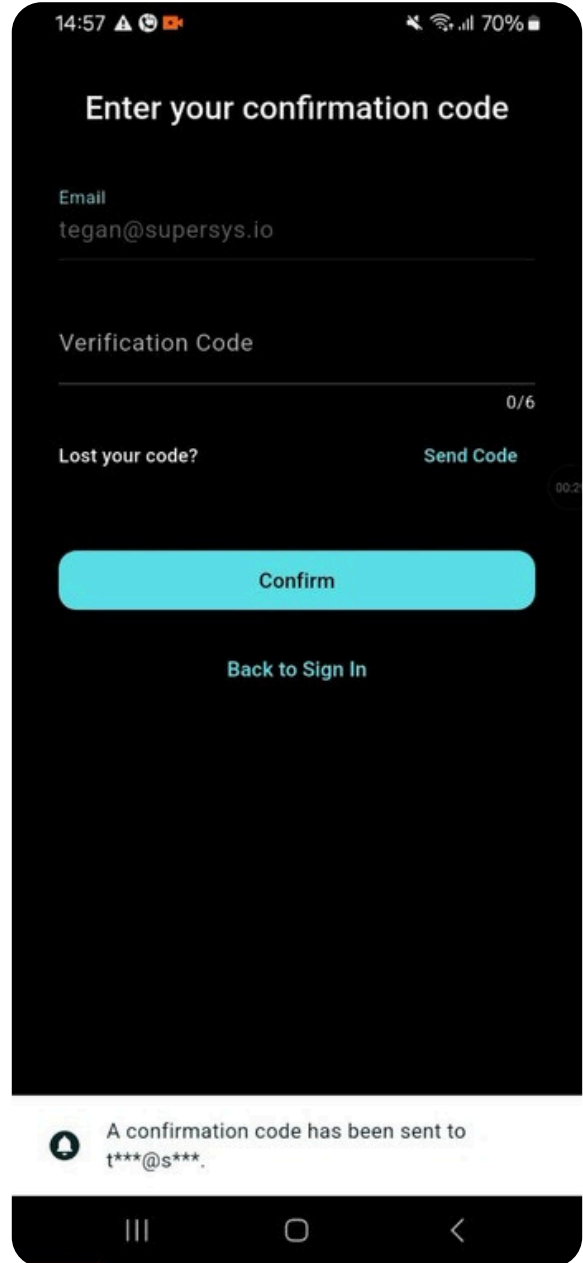


Step 2: Register your account and Verify

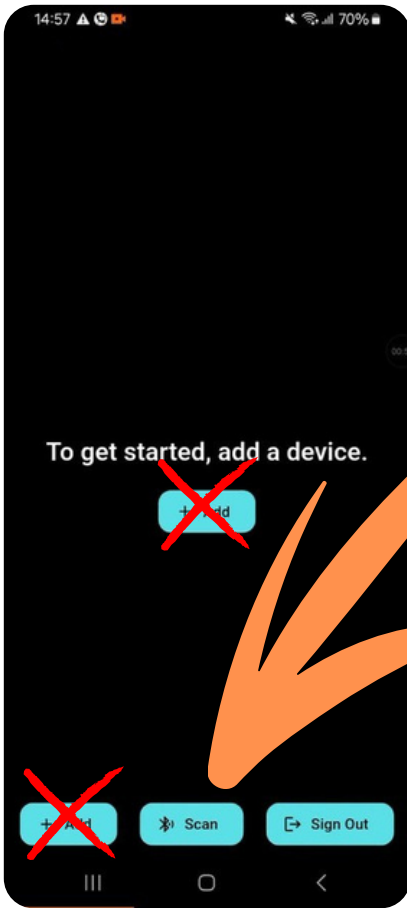
Check your email for your Verification Code. Enter the code and Tap Confirm



The screenshot shows a mobile application interface for account registration. At the top, there are two tabs: "Sign In" and "Create Account", with "Create Account" being the active tab. Below the tabs, there are three input fields: "Email", "Password", and "Confirm Password". Each of the "Password" and "Confirm Password" fields has a red eye icon to the right, indicating a password visibility toggle. At the bottom of the form is a large red button labeled "Create Account". The status bar at the top shows the time as 20:53 and various system icons.

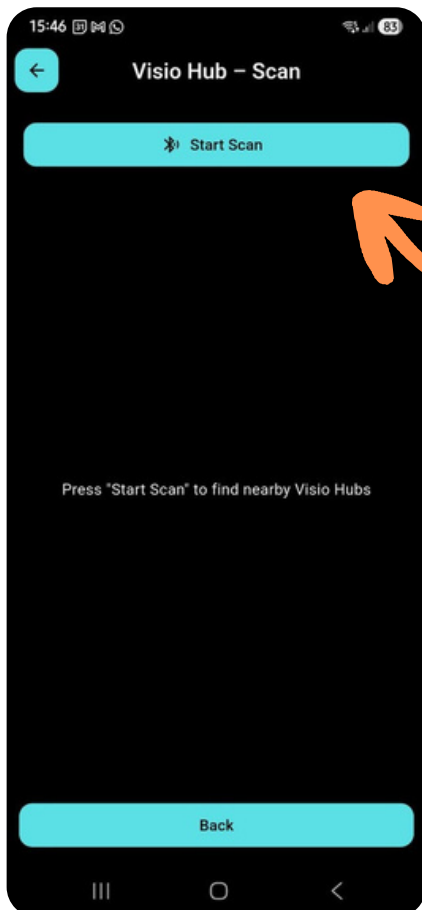


The screenshot shows a mobile application interface for account verification. The title is "Enter your confirmation code". Below the title, there is an "Email" field containing the text "tegan@supersys.io". Below that is a "Verification Code" field with a character count of "0/6" on the right. There are two links: "Lost your code?" on the left and "Send Code" on the right. At the bottom of the form is a large red button labeled "Confirm". Below the "Confirm" button is a link labeled "Back to Sign In". At the very bottom of the screen, there is a notification banner that says "A confirmation code has been sent to t***@s***." with a bell icon on the left. The status bar at the top shows the time as 14:57 and various system icons, including a battery level of 70%.



Step 3:

Click 'Scan' at the bottom of the screen

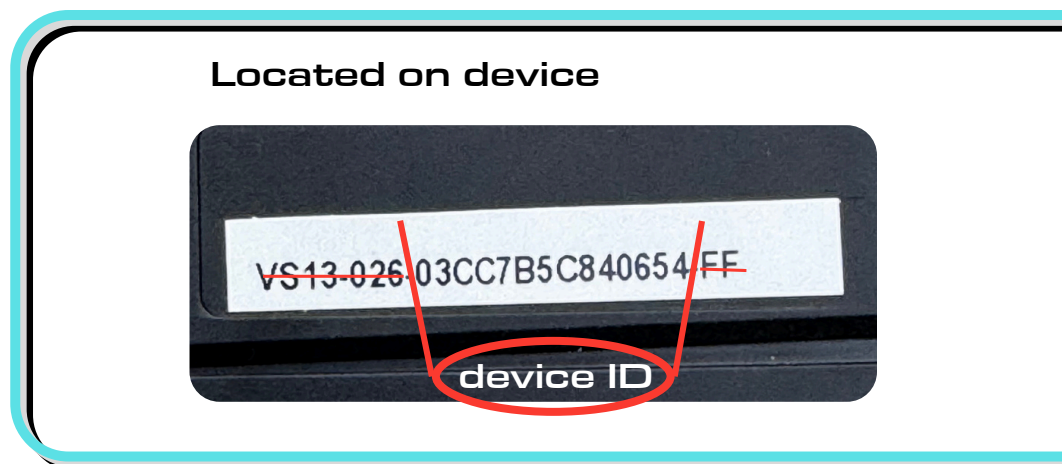
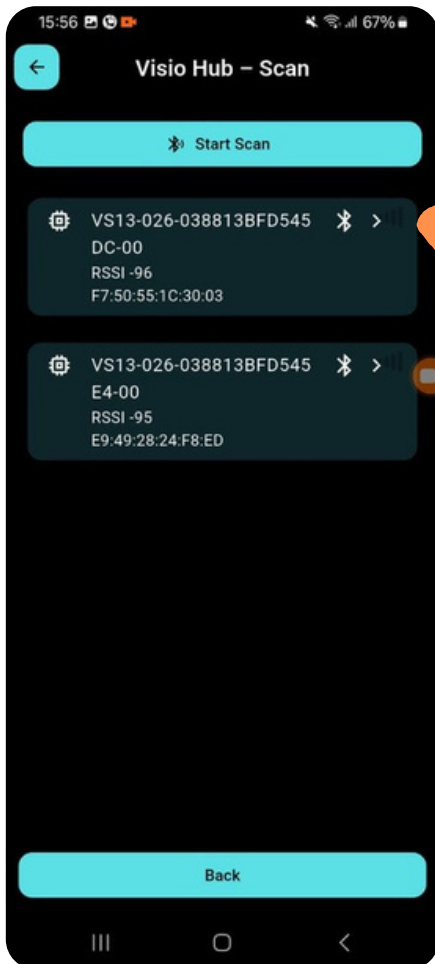


Step 4:

Click Start Scan'

Step 5:

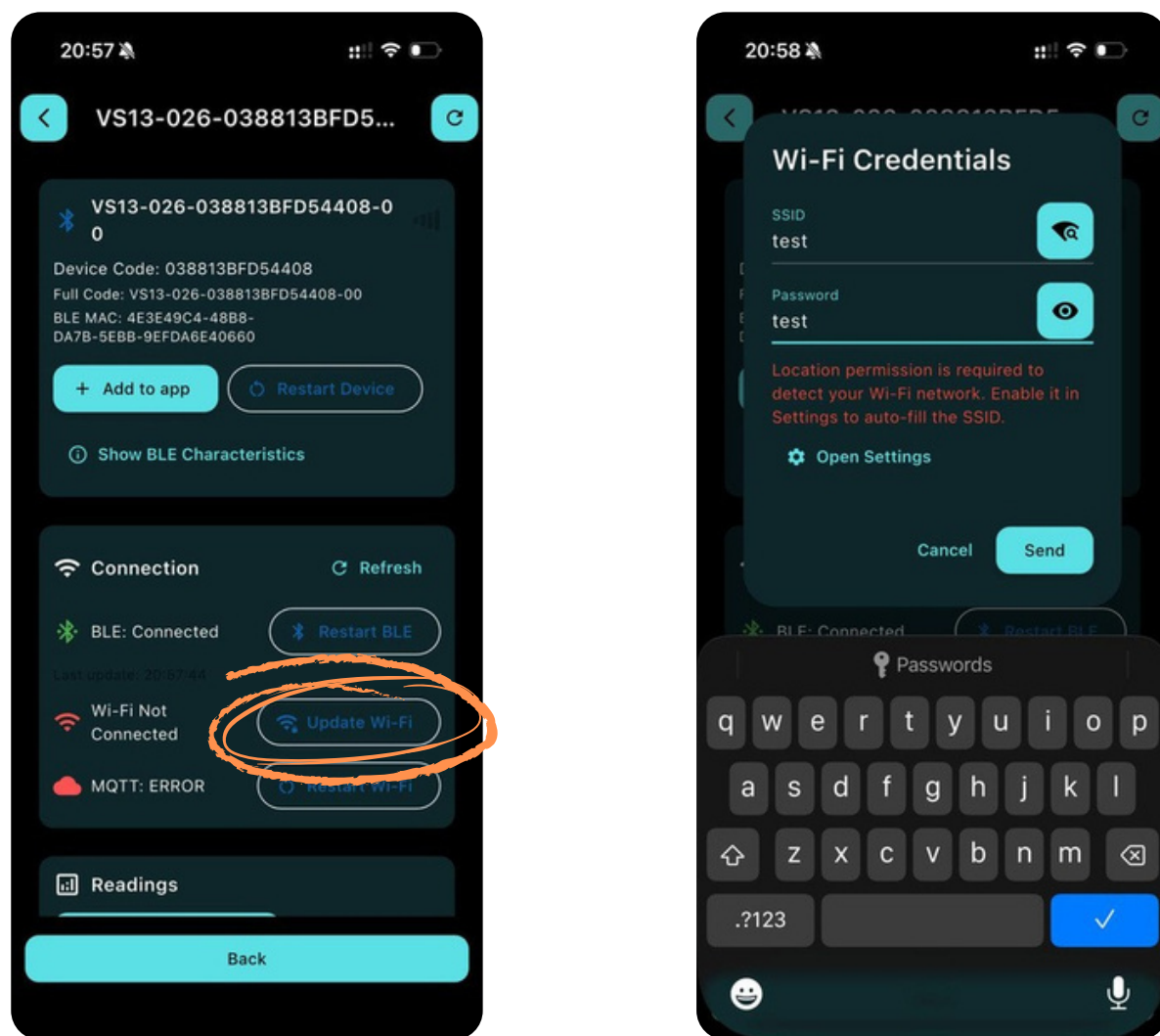
Wait until your device pops up, then tap on it.



Step 6:

Once the BLE shows as connected, click on 'Update Wi-Fi' and type in your WiFi name and password.

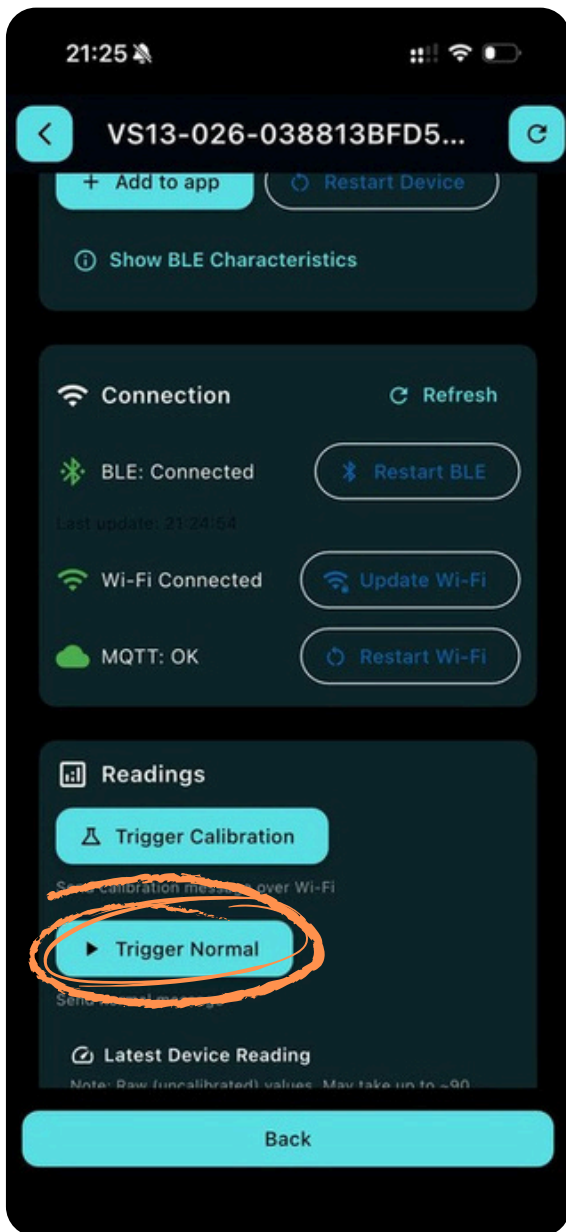
Wait for it to connect to the WiFi and if it does not connect in a minute, re-enter the details and double check that you typed everything correctly.



IMPORTANT NOTE: After each interaction with the device, the BLE may disconnect. You will need to reconnect.

Step 7:

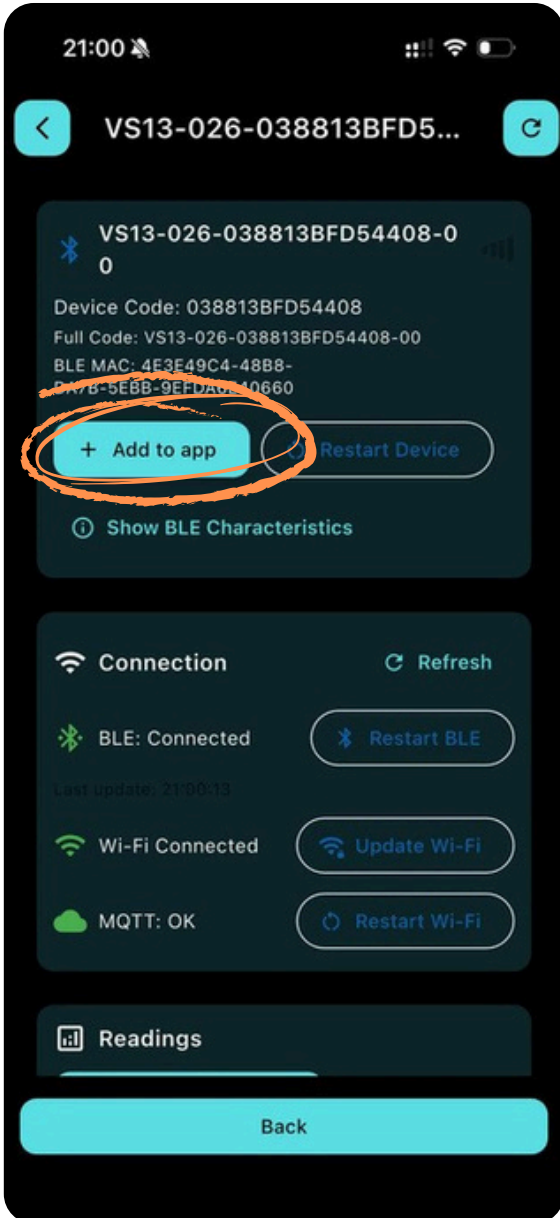
Once connected, you may trigger a reading by clicking on 'Trigger Normal'



Note that a 90 second timer will start, once it is done, you may add the device to your app.

Step 8:

You may now add the device to your app as a saved device by clicking '+ Add to app'



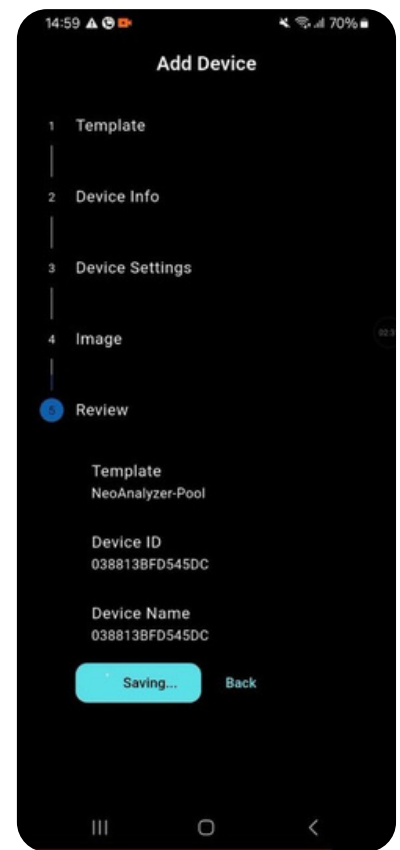
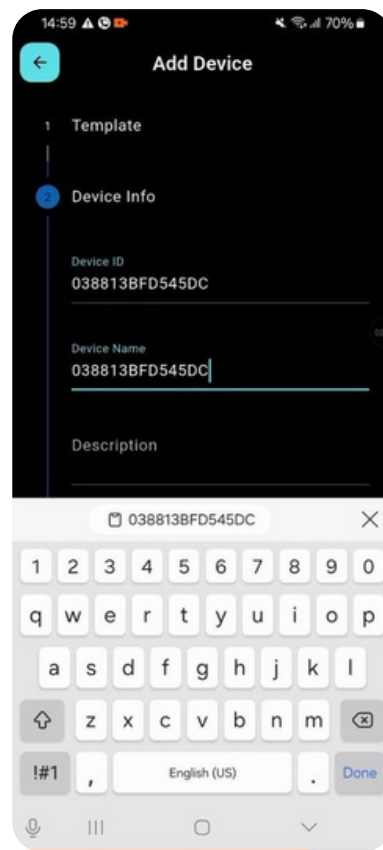
Step 9:

Choose a Display Template



Step 10:

Select the appropriate options and navigate through all of them.



The Device ID should be automatically populated. Ensure that you input your spa's details and specify your location. Once you're done, simply tap "Save."

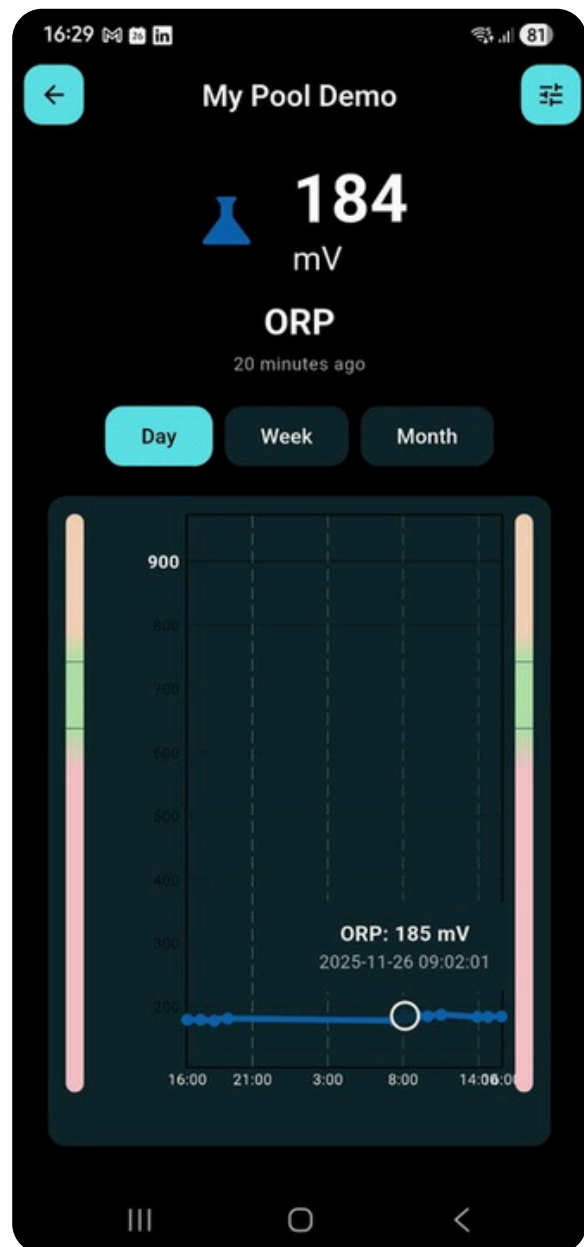
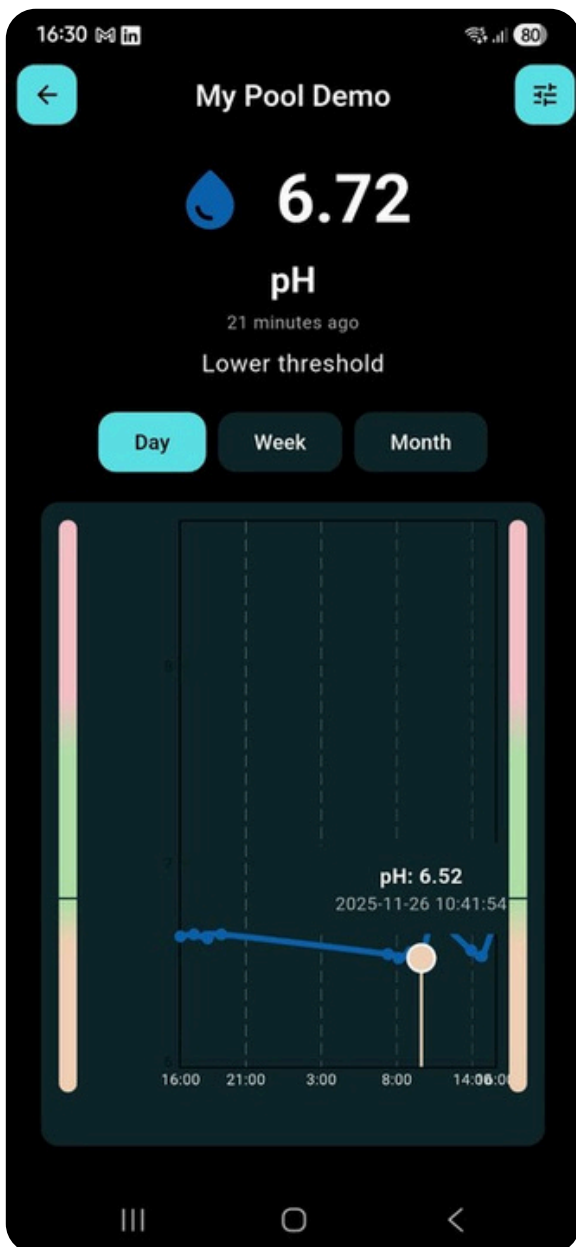
Step 11:

Your newly added device will now appear on the Main Landing Screen. Tap on it to view the information.



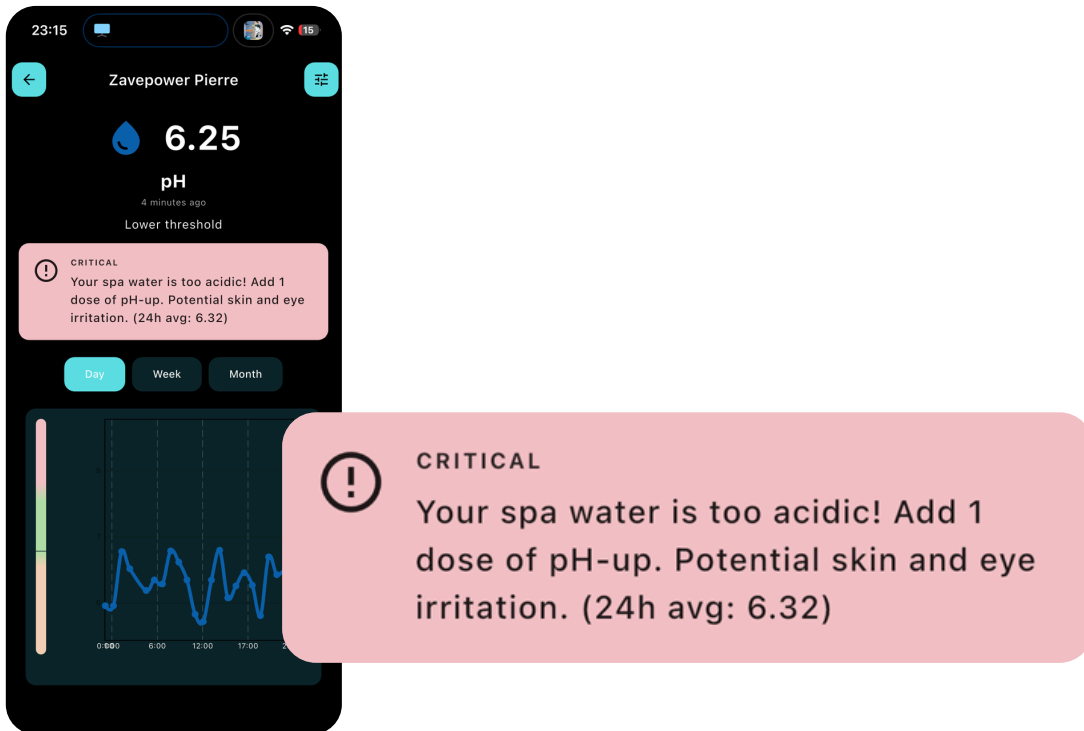
Step 12:

Click on any of the parameters to access additional information across various timeframes:



*Please note that it may take 24 to 48 hours for the probe to achieve stabilization.

Obtain guidance on the actions needed to achieve water balance.



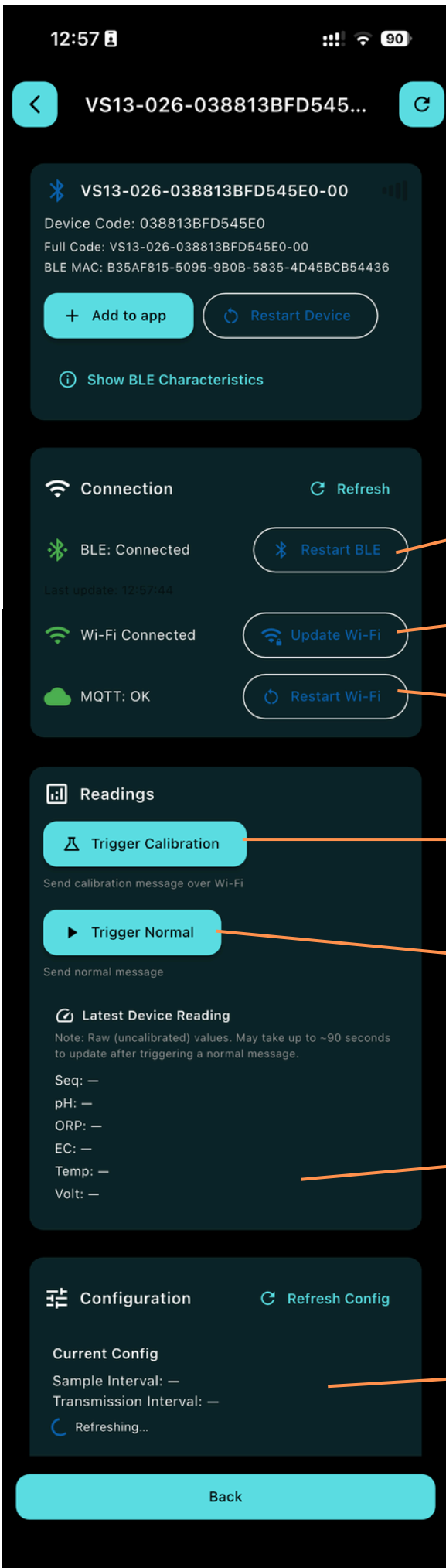
This kind of message will be triggered on EWA when the system have a value that is lower then recommended over 24 h it will guide you to act on different chemicals or make adjustments to the filtration system to help restore the water's equilibrium.

The system may suggest adding specific amounts of balancing agents, like pH increasers or decreasers, based on the current readings.

By following these tailored instructions, you can maintain optimal water conditions, ensuring safety and sustainability.

Advanced Settings overview

To access the settings, position yourself near the EWA box. In settings mode, it communicates through **only Bluetooth**. Here, you can obtain information on Signal, Wi-Fi, and Connection to Server. Additionally, you can calibrate and initiate readings for reference. You also have the option to configure your settings at specific intervals.



Bluetooth status

Wi-Fi status

Connection with
Platform status

Trigger Calibration
function

Fetch current values

Latest values

Config settings on
sample interval

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 are a 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 dry 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.

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 calibrated 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	<i>Gel-filled reference system, no electrolyte refilling required</i> <i>Unique structure preventing pollution and blockage</i> <i>Quick response</i>

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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