OUNA 9951W

OUNA 5-in-1 Digital Water Quality Tester with Bluetooth and Wi-Fi, Model 9951W User Manual

1. Introduction

Thank you for choosing the OUNA 5-in-1 Digital Water Quality Tester, Model 9951W. This device is designed to provide accurate and reliable measurements of pH, Total Dissolved Solids (TDS), Salinity (SALT), Specific Gravity (S.G), and Temperature in various water environments. Its Bluetooth and Wi-Fi connectivity allow for convenient remote monitoring and data management via a dedicated application.

This manual provides detailed instructions for the proper setup, operation, maintenance, and troubleshooting of your water quality tester. Please read it thoroughly before using the device to ensure optimal performance and longevity.

2. Product Overview

The OUNA 5-in-1 Water Quality Tester is a versatile instrument suitable for monitoring drinking water, aquariums, aquaculture systems, swimming pools, and laboratories. It combines five essential water quality parameters into a single, easy-to-use device.

Key Features:

- **5-in-1 Measurement:** Measures pH, TDS, SALT, S.G, and Temperature.
- **Bluetooth & Wi-Fi Connectivity:** Enables remote monitoring and data transfer to a mobile application.
- **Digital Display with Backlight:** Enhances readability in various lighting conditions.
- **Automatic Data Storage:** Stores up to 30 days of historical data within the application.
- **Alarm Function:** Allows setting of high and low alarm values via the app for critical parameters.
- **Data Export:** Supports exporting data to Excel sheets via email.
- **Temperature Unit Switchable:** Easily switch between Celsius (°C) and Fahrenheit (°F).



Image: The OUNA 5-in-1 Water Quality Tester displaying its core functionalities: WiFi connectivity, mobile application support, and multiparameter measurement capabilities.



Image: A visual representation of the five parameters measured by the device (pH, TDS, Salt, S.G, Temperature) along with their respective measurement ranges, shown with the device monitoring a hydroponic system.

3. Package Contents

Please check the package contents upon unboxing to ensure all items are present:

- 1 x OUNA 5-in-1 Water Quality Analyzer (Model 9951W)
- 1 x Electrode (Sensor Probe)
- 1 x Accessories Pack (e.g., suction cups for mounting)
- 1 x Charger (Power Adapter)
- 1 x User Manual (English)

4. Device Components

Familiarize yourself with the main parts of your OUNA water quality tester:

- **Main Unit:** The central processing unit with a digital display and control buttons.
- **Electrodes/Sensors:** Probes that measure pH, TDS/Salt/S.G, and Temperature. These are typically connected via cables to the main unit.
- **Power Port:** For connecting the charger.
- **Control Buttons:**
    - **Power Button:** To turn the device ON/OFF.
    - **MODE Button:** To switch between measurement parameters (pH, TDS, SALT, S.G, Temperature).
    - **TEMP/CAL Button:** To switch temperature units or initiate calibration.



Image: The main unit of the OUNA water quality tester connected to two sensor probes, illustrating the primary components of the device.

5. Setup

5.1 Initial Preparation

1. **Unpack:** Carefully remove all components from the packaging.
2. **Connect Sensors:** Connect the sensor probes securely to the corresponding ports on the main unit. Ensure a firm connection to prevent inaccurate readings.
3. **Power On:** Connect the charger to the device and a power outlet. The device will typically power on automatically or can be turned on using the power button.

5.2 App Installation and Pairing

The OUNA 9951W tester supports remote monitoring via a mobile application. The app is compatible with both iOS and Android systems.

1. **Download App:** Search for the official OUNA water tester app on your smartphone's app store (App Store for iOS, Google Play Store for Android).
2. **Register/Login:** Follow the in-app instructions to create an account or log in if you already have one.
3. **Pair Device:**
    - Ensure your device's Wi-Fi and Bluetooth are enabled.
    - In the app, select 'Add Device' or a similar option.
    - The app will search for available devices. Select your OUNA 9951W tester from the list.
    - Follow any on-screen prompts to complete the pairing process.
4. **Placement:** Use the provided suction cups or other accessories to securely place the sensor probes in the water environment you wish to monitor. Ensure the probes are fully submerged and stable.



Image: The OUNA water quality tester installed in a fish tank, demonstrating real-time data transfer and monitoring via the mobile application.

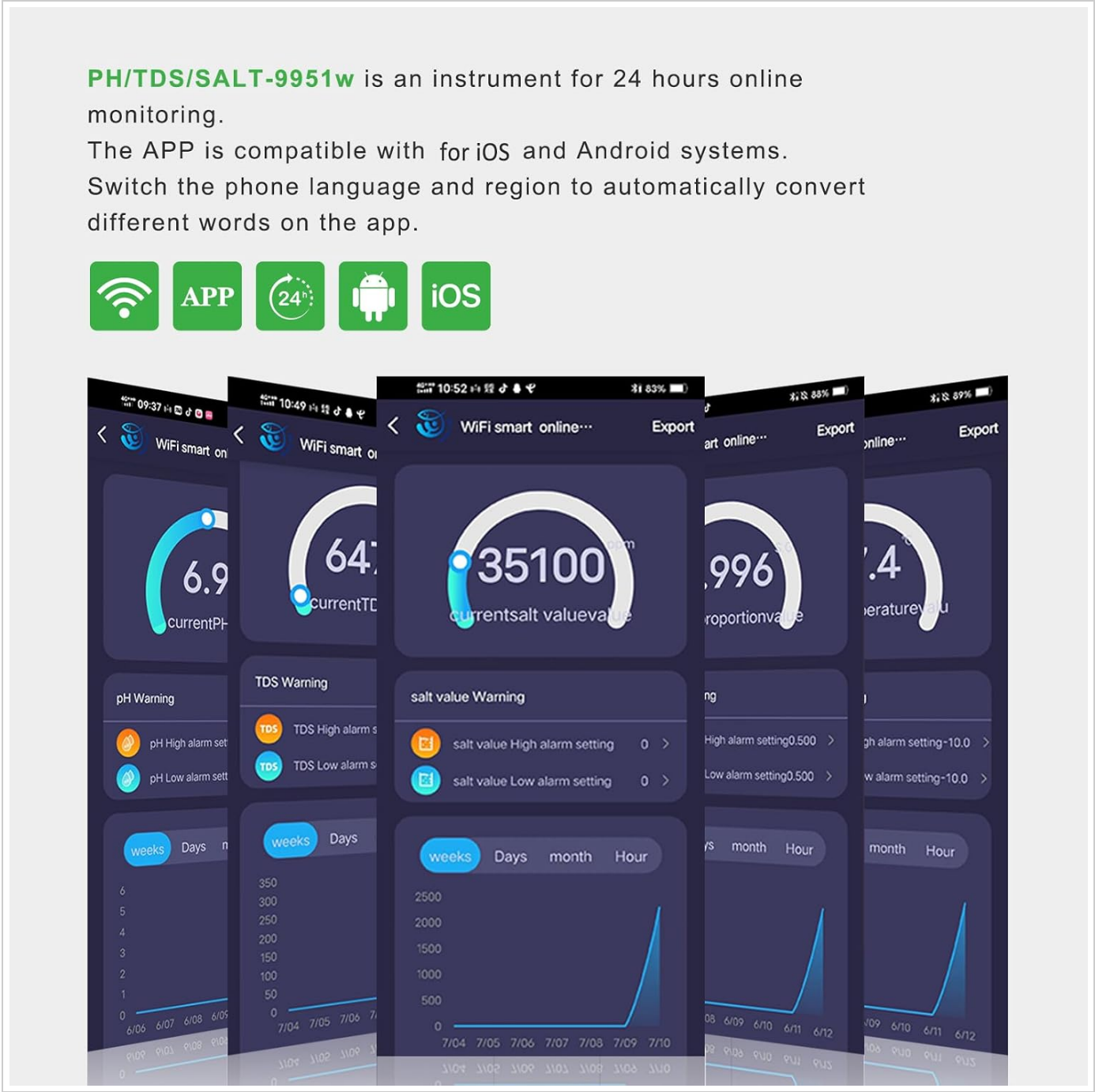


Image: Screenshots of the OUNA mobile application interface, highlighting its compatibility with iOS and Android, and displaying various water quality parameters.

6. Operating Instructions

6.1 Taking Measurements

1. **Power On:** Ensure the device is powered on.
2. **Select Parameter:** Press the **MODE** button to cycle through the different measurement parameters (pH, TDS, SALT, S.G, Temperature) on the display.
3. **Read Value:** Once the desired parameter is selected, the current reading will be displayed on the screen. Allow a few moments for the reading to stabilize.
4. **Temperature Unit:** To switch between Celsius and Fahrenheit, press and hold the**TEMP**/**CAL** button briefly.

6.2 Remote Monitoring via App

Once paired, the app provides comprehensive control and monitoring features:

- **Real-time Data:** View current readings for all parameters directly on your smartphone.
- **Historical Data:** Access up to 30 days of stored data, viewable by hour, day, week, or month.
- **Alarm Settings:** Set custom high and low alarm thresholds for each parameter. The app will send notifications if readings fall outside these ranges.
- **Data Export:** Export historical data to an Excel sheet.

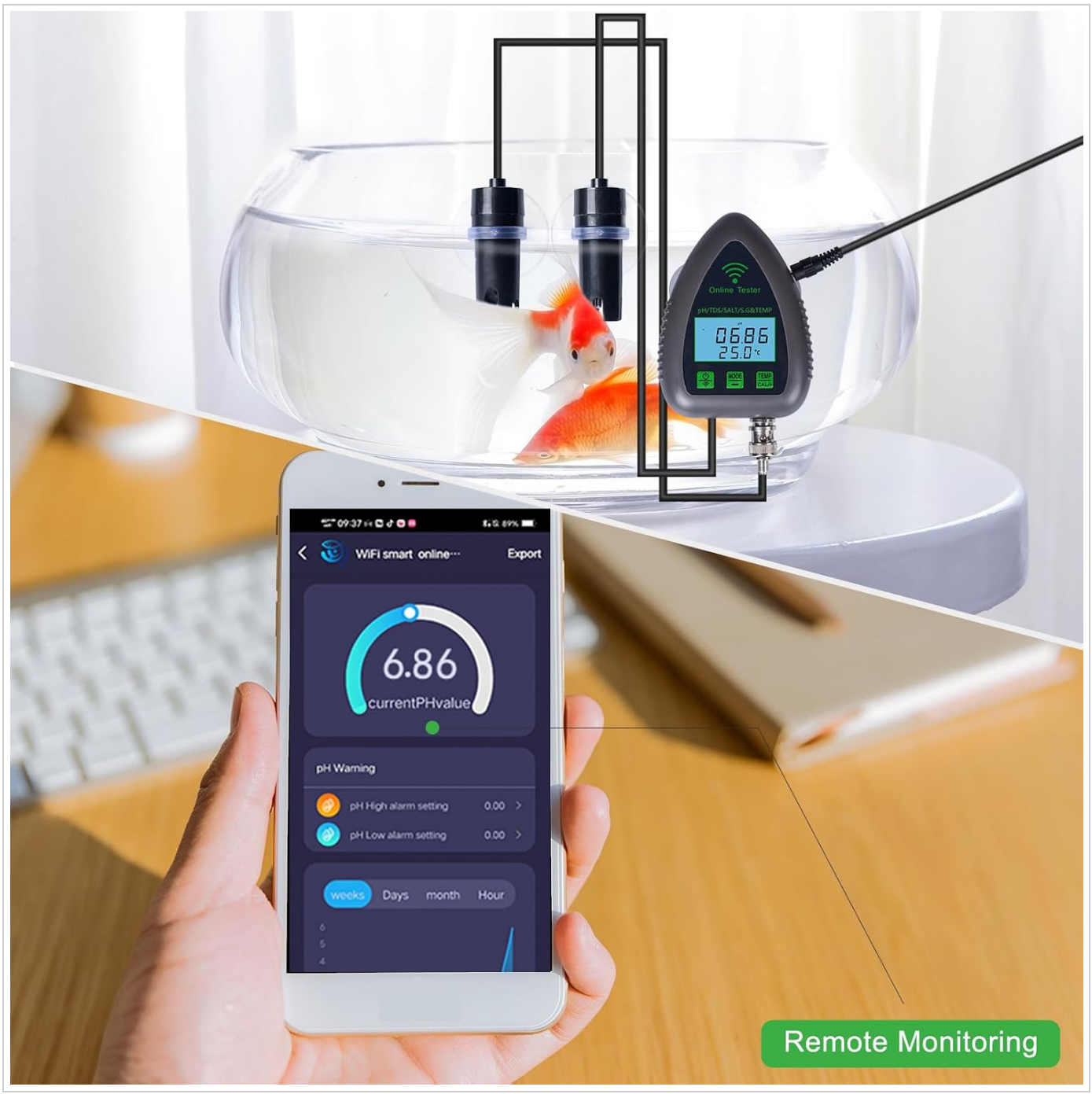


Image: The OUNA water quality tester in operation, demonstrating its remote monitoring capability through a smartphone application.

7. Calibration

Regular calibration ensures the accuracy of your water quality tester. Refer to the specific instructions for each parameter's calibration process, typically involving standard buffer solutions.

7.1 pH Calibration

1. Prepare pH 6.86, pH 4.00, and pH 9.18 (or 10.00) standard buffer solutions.
2. Clean the pH electrode with distilled water and blot dry.

3. Submerge the pH electrode into the pH 6.86 buffer solution.
4. Press and hold the **TEMP**/**CAL** button until the display indicates calibration mode (e.g., 'CAL' or flashing value).
5. Wait for the reading to stabilize, then confirm calibration (usually by pressing **TEMP**/**CAL** again or waiting for auto-confirmation).
6. Rinse the electrode and repeat the process with pH 4.00 and then pH 9.18 (or 10.00) buffer solutions.

7.2 TDS/SALT Calibration

TDS and Salinity calibration typically involves using a standard solution of known concentration (e.g., 12.88 mS/cm for conductivity, which correlates to TDS/Salt). Consult the app or the device's specific calibration menu for detailed steps.

8. Data Management

The OUNA 9951W tester automatically stores measurement data, which can be accessed and managed through the mobile application.

8.1 Viewing Historical Data

Open the app and navigate to the historical data section for your device. You can view data trends over different periods (hour, day, week, month).

8.2 Exporting Data

1. In the app, locate the 'Export' function, usually found in the data history section.
2. Select the desired time range for the data you wish to export.
3. Enter your email address when prompted.
4. The data will be sent to your email in an Excel sheet format.

Data Output in Excel Sheet

Data in hour/day/week/month is sent
to the mailbox in the form of Excel sheet.
Download after sending email.





Hour 60 groups of data

Weeks 7 groups of data

Month 30 groups of data

Days 24 groups of data from yesterday and several groups from today Example：8：00a.m, i.e.32groups（24+8）.

Image: A visual guide demonstrating how the OUNA water quality tester's data can be outputted and managed in an Excel sheet format.

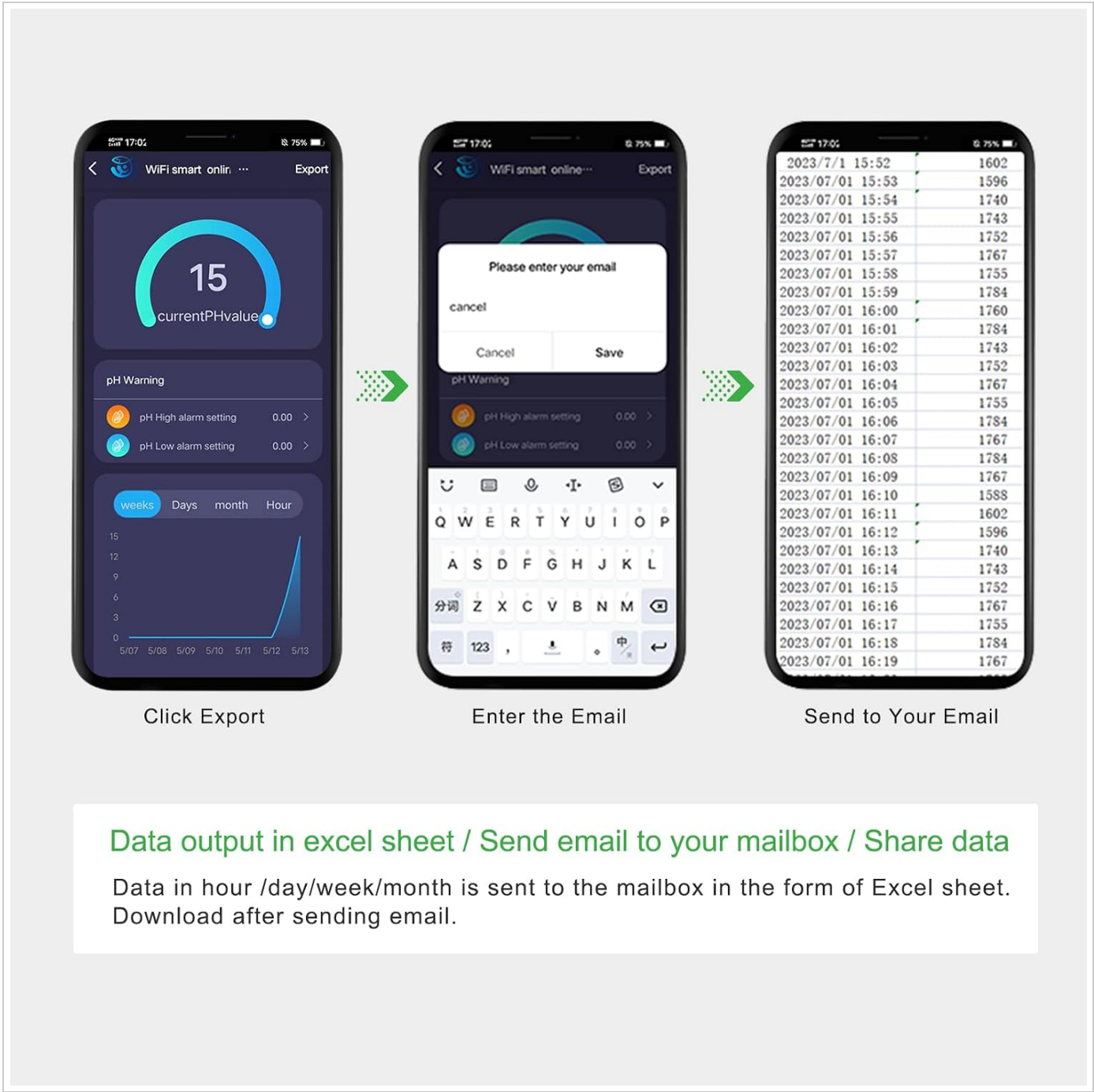


Image: Screenshots illustrating the step-by-step process of exporting data from the OUNA app to an email in Excel format.

9. Maintenance

Proper maintenance ensures the accuracy and extends the lifespan of your OUNA water quality tester.

9.1 Electrode Cleaning

- Rinse the electrodes thoroughly with distilled or deionized water after each use.
- For stubborn deposits, gently clean the electrode tip with a soft brush or cotton swab. Avoid abrasive materials.
- If the electrode is heavily fouled, soak it in a mild cleaning solution (e.g., pH electrode cleaning solution) for the recommended time, then rinse thoroughly.

9.2 Electrode Storage

- Always store the pH electrode in a suitable storage solution (e.g., 3M KCl solution or pH 4 buffer). Never store it dry.
- Ensure the protective cap is securely placed over the electrode tip during storage.

9.3 Device Storage

- Store the main unit in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep the device and electrodes out of reach of children.

10. Troubleshooting

If you encounter issues with your OUNA water quality tester, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inaccurate readings	Uncalibrated sensor, dirty electrode, expired buffer solution, damaged electrode.	Calibrate the device regularly. Clean the electrode. Use fresh buffer solutions. Replace the electrode if damaged.
Device not powering on	No power, faulty charger, device malfunction.	Check power connection. Try a different power outlet. Contact customer support if the issue persists.
App not connecting	Bluetooth/Wi-Fi off, device not in pairing mode, app issues.	Ensure Bluetooth/Wi-Fi is on. Restart device and app. Re-pair the device. Check app permissions.
Slow reading stabilization	Electrode not conditioned, low temperature, dirty electrode.	Allow electrode to soak in storage solution for a few hours. Ensure water temperature is within operating range. Clean electrode.

11. Specifications

Parameter	Range	Resolution / Accuracy
pH	0.00 - 14.00 pH	Resolution: 0.01 pH Accuracy: ±0.03 pH
TDS	0 - 19900 ppm 0 - 199.0 ppt	Resolution: 1 ppm (<1999 ppm), 10 ppm (>1999 ppm), 0.1 ppt Accuracy: ±2% F.S
Salt	0 - 199.0 ppt 0% - 20%	Resolution: 1 ppm (<1999 ppm), 10 ppm (>1999 ppm), 0.1 ppt, 0.01% Accuracy: ±2% F.S
Specific Gravity (S.G)	0.990 - 1.400	Resolution: 0.001
Temperature	0 - 50 °C (32 - 122 °F)	Resolution: 0.1 °C (6 °F) Accuracy: ±1.0 °C
Material	ABS	
Product Dimensions	100 x 75 x 22 mm (3.94 x 2.95 x 0.87 inches)	
Product Weight	121 g (4.27 ounces)	
Model Number	9951W	

12. Safety Information

- Do not disassemble or modify the device.
- Keep the device and electrodes away from strong magnetic fields.
- Avoid dropping or subjecting the device to severe impact.
- Ensure the power adapter is compatible with your local voltage.
- This device is not a toy. Keep out of reach of children.

13. Warranty and Support

For warranty information and technical support, please refer to the contact details provided on the product packaging or the official OUNA website. Keep your purchase receipt as proof of purchase for warranty claims.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question