

[Manuals.plus](#) /

› [TEKCOPLUS](#) /

› TEKCOPLUS TK525PLUS_R1 WiFi 8-in-1 Water Quality Monitor User Manual

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Model: TK525PLUS_R1

INTRODUCTION

The TEKCOPLUS TK525PLUS_R1 is an advanced WiFi 8-in-1 water quality monitor designed for comprehensive analysis of various water parameters. This device provides real-time remote monitoring via a Wi-Fi connection using the Tuya application, featuring a bright and easy-to-read digital display. It measures pH, Temperature, TDS, EC, Salinity, Specific Gravity (SG), and ORP, making it suitable for a wide range of applications including freshwater and saltwater aquariums, hydroponics, swimming pools, ponds, aquaculture, water treatment, and laboratory analysis.

Key features include automatic unit switching for TDS (ppm/ppt) and conductivity ($\mu\text{S}/\text{cm}$ and mS/cm), a durable probe with a protective cap, and a simple calibration process recommended every 4 to 6 months. High-resolution sensors ensure reliable results with professional accuracy.

WHAT'S IN THE BOX

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

- 1 x TEKCOPLUS 8-in-1 Water Quality Monitor Main Unit
- 1 x Electrode/Probe
- 1 x Floating Ring for Probe
- 1 x Wall Clip
- 1 x Perforated Probe Cover
- 6 x pH Calibration Powders (pH 4.01, pH 6.86, pH 9.18)
- 2 x 3M Adhesive Stickers
- 1 x USB Power Cable
- 2 x Power Plugs (adapters)
- 1 x English Instruction Manual (this document)

LARGE APPLICATION

Aquariums d'eau douce



Aquariums d'eau de mer



Bassin



Aquaculture



Image: All components included in the TEKCOPLUS 8-in-1 Water Quality Monitor package, including the monitor, probe, calibration powders, and accessories.

SETUP

Monitor Installation

The monitor can be installed using the provided adhesive stickers and bracket.

1. Peel off the protective film from the sticky adhesive.
2. Attach one part of the bracket to the back of the monitor using the adhesive.
3. Attach the other part of the bracket to your desired surface (e.g., aquarium wall or stand) using the remaining adhesive or screws through the designated screw holes.
4. Slide and lock the monitor onto the mounted bracket piece.

UTILISATION DE LA SONDE

Remarque : Ne submergez pas entièrement la sonde dans l'eau.

Une pression d'eau excessive peut l'endommager et réduire sa durée de vie. Ne la connectez pas au moniteur lorsqu'elle est dans l'eau.



Image: A visual guide demonstrating the four steps for mounting the monitor using the provided adhesive brackets.

Probe Installation

The probe can be installed in two ways:

- **Wall Clip:** Use the provided wall clip to secure the probe to the side of your aquarium or container.
- **Floating Sponge:** Attach the floating ring to the probe to allow it to float on the water surface.

PROFITEZ DE LA COMMODITÉ SANS FIL !

L'unité principale et la sonde de ce moniteur de qualité d'eau 8-en-1 se connectent sans fil jusqu'à 500 mètres de distance, éliminant les câbles emmêlés et offrant une plus grande liberté pendant les tests.



Image: Illustration showing the probe installed with a wall clip and with a floating sponge.

Important Note on Probe Usage:

Do not fully submerge the probe in water. Excessive water pressure can damage the probe and reduce its lifespan. Ensure that only the sensing part of the probe is submerged, typically up to the indicated "Max Water Level" line. Do not connect the probe to the monitor while it is submerged in water.

INSTALLATION DE LA SONDE

Vous pouvez la fixer à la paroi de l'aquarium à l'aide du clip ou la laisser flotter à la surface avec l'éponge flottante



1. Clip mural



2. Éponge flottante

Image: A close-up view of the probe indicating the maximum water level for safe and effective operation.

Connecting to the Mobile App (Tuya)

The TEKCOPLUS monitor supports intelligent monitoring via Wi-Fi using the Tuya application.

1. Download the Tuya Smart app from your smartphone's app store (iOS or Android).
2. Register or log in to your Tuya account.
3. Ensure your monitor is powered on and within range of a 2.4GHz Wi-Fi network. *(Note: The device is only compatible with 2.4GHz Wi-Fi.)*
4. Follow the in-app instructions to add a new device. The app will guide you through the pairing process.
5. Once connected, you can view real-time readings, historical data, and set alarms directly from your smartphone.



Image: A smartphone screen showing the mobile app interface with various water quality parameters being monitored in real-time. The main unit and probe connect wirelessly, providing a range of up to 500 meters in an open area, offering flexibility in placement.

SURVEILLANCE D'AQUARIUM FACILE ET FIABLE



Surveillance
intelligente
24h/24 et 7j/7



Unités
commutables



Connexion Wifi
et application



Alarme
sonore



Étalonnage du
pH en 3 points

Image: An illustration demonstrating the wireless connection between the monitor and the probe, highlighting the 500-meter range.

OPERATING INSTRUCTIONS

Once the monitor and probe are set up and connected to the app, the device will begin displaying real-time water quality parameters.

Parameter Monitoring

The bright digital display on the monitor shows the following parameters:

- **pH:** Measures the acidity or alkalinity of the water.
- **Temperature:** Displays the water temperature in Celsius or Fahrenheit.
- **TDS (Total Dissolved Solids):** Indicates the concentration of dissolved solids in the water.
- **EC (Electrical Conductivity):** Measures the electrical conductivity of the water, related to dissolved salts.
- **Salinity:** Shows the salt content of the water.

- **ORP (Oxidation-Reduction Potential):** Measures the water's ability to break down contaminants.
- **SG (Specific Gravity):** Indicates the density of the water, particularly useful for saltwater applications.

The monitor features automatic unit switching for TDS (ppm/ppt) and conductivity ($\mu\text{S}/\text{cm}$ and mS/cm) for convenience.

MOBILE APP MONITORING

Easily track water conditions in real-time with the mobile app monitoring feature—convenient control and updates right from your phone.



Image: The TEKCOPLUS monitor showing various water quality parameters on its display, positioned next to an aquarium.

Smart Monitoring via Wi-Fi

Through the Tuya app, you can:

- View real-time data from anywhere.
- Track historical trends of water quality.
- Set custom alerts and alarms for specific parameter thresholds.
- Switch between temperature units ($^{\circ}\text{C}/^{\circ}\text{F}$) and other measurement units as needed.

CALIBRATION

Regular calibration is crucial for maintaining the accuracy of your water quality monitor. It is recommended to calibrate the device every 4 to 6 months, or if you notice inconsistent readings.

pH Calibration

The monitor supports 3-point pH calibration using the provided pH buffer powders (pH 4.01, pH 6.86, pH 9.18).

1. Prepare the calibration solutions by dissolving each pH powder packet in 250ml of distilled water.
2. Refer to the specific calibration instructions within the Tuya app or the monitor's on-screen menu.
3. Typically, you will immerse the probe in the first buffer solution (e.g., pH 6.86), wait for a stable reading, and confirm calibration.
4. Repeat the process for the second (e.g., pH 4.01) and third (e.g., pH 9.18) buffer solutions.
5. Always rinse the probe with distilled water between different buffer solutions to prevent contamination.

For other parameters like TDS, EC, and Salinity, consult the app or monitor settings for specific calibration procedures if required.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your TEKCOPLUS water quality monitor.

- **Probe Cleaning:** Regularly clean the probe to remove any buildup of algae or mineral deposits. Use a soft brush and distilled water. Avoid abrasive materials.
- **Probe Storage:** When not in use, store the probe with its protective cap filled with a suitable probe storage solution (or pH 4.01 buffer solution if storage solution is unavailable). Do not store the probe dry.
- **Probe Replacement:** The probe is replaceable. If readings become consistently inaccurate despite calibration and cleaning, consider replacing the probe.
- **Monitor Cleaning:** Wipe the monitor's display and body with a soft, damp cloth. Do not use harsh chemicals or immerse the monitor in water.
- **Calibration Schedule:** Adhere to the recommended calibration schedule (every 4-6 months) to maintain optimal performance.

TROUBLESHOOTING

If you encounter issues with your TEKCOPLUS water quality monitor, please refer to the following common troubleshooting steps:

- **Inaccurate Readings:**
 - Ensure the probe is clean and free from debris.
 - Perform a full calibration using fresh buffer solutions.
 - Check if the probe is correctly submerged (not fully, not too shallow).
 - Verify the probe's lifespan; it might need replacement if it's old or damaged.
- **No Display/Power Issues:**
 - Check the USB power cable and power plugs for secure connections.
 - Ensure the power source is active.
- **Wi-Fi Connection Problems:**

- Confirm your Wi-Fi network is 2.4GHz. The device does not support 5GHz networks.
- Ensure the monitor is within range of your Wi-Fi router.
- Restart your Wi-Fi router and the monitor.
- Re-attempt the pairing process in the Tuya app.

• **Fluctuating Readings:**

- Ensure the probe is stable in the water and not affected by strong currents or air bubbles.
- Check for electrical interference from other devices.
- Clean and recalibrate the probe.

If the problem persists, please contact TEKCOPLUS customer support for further assistance.

SPECIFICATIONS

Measurement Parameters

Parameter	Range	Resolution	Accuracy
pH	0-14	0.01	±0.05
Temperature	0-60 °C (32-140 °F)	0.1 °C	±0.1 °C
TDS	0-999 ppm and 1-200 ppt	1 ppm / 1 ppt	±5 % F.S
EC	0-999 µS/cm and 1-400 mS/cm	1 µS/cm / 1 mS/cm	±5 % F.S
Salinity	0.01-25.00 %	N/A	±2 % F.S
Specific Gravity (SG)	1.000-1.222	0.1	N/A
ORP	0–±999 mV	1 mV	±1 mV

General Product Information

- **Manufacturer:** Tekcoplus Ltd
- **Model Number:** TK525PLUS_R1
- **Product Dimensions (L x W x H):**24.69 x 16.21 x 6.6 cm
- **Item Weight:** 0.73 grams
- **Power Source:** USB (cable and plugs included)
- **Batteries Required:** No
- **Batteries Included:** No
- **Connectivity:** Wi-Fi (2.4GHz only)
- **Included Components:** Main pH-meter unit (refer to "What's in the Box" section for full list)

Applications

The TEKCOPLUS TK525PLUS_R1 is suitable for a wide range of water quality monitoring applications:

- Freshwater Aquariums
- Seawater Aquariums
- Ponds

- Aquaculture
- Hydroponics
- Swimming Pools
- Water Treatment Facilities
- Laboratories

MONITOR INSTALLATION:



WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact the retailer. For technical support, product inquiries, or assistance with troubleshooting, please contact TEKCOPLUS customer service. Contact details can typically be found on the manufacturer's website or on your purchase invoice.

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