

B0FHTQQ5RP

Generic WiFi Solar Tank Level Monitor User Manual

Model: B0FHTQQ5RP

1. PRODUCT OVERVIEW

The Generic WiFi Solar Tank Level Monitor provides a reliable solution for tracking liquid levels in various tanks. This system includes a solar-powered sensor for outdoor installation and an indoor repeater for enhanced signal transmission. It connects to a mobile application for remote monitoring and delivers real-time alerts to prevent issues such as water outages or overflows.

MONITOR ANYTIME ANYWHERE



GeniLife APP



2.4G/5G WiFi



Work



Vacation



Home

Image 1.1: The WiFi Solar Tank Level Monitor system, illustrating its remote monitoring capabilities through the GeniLife app and compatibility with 2.4G/5G WiFi. The image also indicates a required drill hole size of 2 1/2 inches for sensor installation on a tank.

2. SETUP GUIDE

2.1 Sensor Installation

1. **Prepare the Tank:** Identify a suitable location on your tank for the sensor. Ensure the surface is clean and flat.
2. **Drill Hole:** Using appropriate tools, drill a 2 1/2 inch (approximately 63.5 mm) diameter hole at the chosen installation point on the tank.
3. **Mount Sensor:** Insert the solar-powered liquid level monitor into the drilled hole. Secure it firmly using the provided mounting hardware, ensuring a watertight seal.

2.2 Repeater Placement

Place the repeater (signal booster) indoors, within 330 feet (100 meters) of the outdoor sensor. Ensure it is in an area with good WiFi coverage (2.4G/5G) and away from major obstructions that could interfere with the signal.

2.3 App Connection

1. **Download App:** Download the GeniLife APP from your smartphone's app store.
2. **Create Account:** Follow the in-app instructions to create a new user account or log in if you already have one.
3. **Pair Device:** Within the app, select the option to add a new device. Follow the pairing instructions, which typically involve pressing a button on the repeater and confirming the connection in the app. Ensure your smartphone is connected to the same 2.4G/5G WiFi network as the repeater during setup.



**Compatible with liquid containers
from 1 to 13 ft in height**

Non-contact ultrasonic technology

Image 2.1: Examples of various liquid containers, including water barrels and large tanks, that are compatible with the non-contact ultrasonic level sensor. The image also highlights the solar panel and sensor components.

3. OPERATING INSTRUCTIONS

3.1 Remote Monitoring

- **Real-Time Tracking:** Once connected, open the GeniLife APP on your smartphone or tablet to view the current liquid level in your tank. The app provides real-time data and historical tracking.
- **Anytime, Anywhere Access:** Monitor your tank levels from any location with an internet connection.

3.2 Alert Notifications

- **App Alerts:** The GeniLife APP will send instant notifications to your device if the liquid level goes too high or too low, based on your configured thresholds.
- **Repeater Alerts:** The indoor repeater also provides audible and visual alerts for critical level changes, ensuring you are informed even if your phone is not nearby.



Image 3.1: The repeater device, showing its alert indicator, alongside a smartphone displaying synchronized alert notifications from the GeniLife app, highlighting the system's instant alert capabilities.

3.3 Signal Transmission

- **Extended Range:** The upgraded repeater ensures a stable signal transmission range of up to 330 feet (100 meters) between the outdoor sensor and your indoor WiFi network.
- **Seamless Connectivity:** This extended range helps maintain a strong connection, minimizing disconnections and ensuring continuous monitoring.



Image 3.2: An outdoor tank equipped with the sensor, and an indoor repeater demonstrating seamless WiFi connectivity. The image emphasizes the increased transmission distance of up to 330 feet, ensuring a strong signal without disconnections.

4. MAINTENANCE

4.1 Power Management

- **Solar Charging:** The outdoor sensor is equipped with a 5V solar panel that continuously charges its internal 1500mAh lithium battery.
- **Long Battery Life:** The sensor is designed for low power consumption, providing up to 6 months of stable performance even during extended periods of cloudy or rainy weather.
- **Low Maintenance:** Due to its solar charging capability, the sensor requires minimal manual intervention for power.

4.2 Durability and Protection

- **Weather Resistance:** The sensor features a sturdy ABS shell and a sealed base, providing IP65 waterproof protection against wind, rain, and sun exposure.
- **Cleaning:** Periodically inspect the solar panel for any dirt or debris and gently clean it to ensure optimal charging.



Image 4.1: The solar-powered tank level monitor, emphasizing its low maintenance and high reliability. It highlights a stable battery life of 6 months and its ability to function effectively even during stormy weather conditions.

5. TROUBLESHOOTING

- **No Signal/Weak Connection:**

- Ensure the repeater is placed within 330 feet (100 meters) of the sensor.
- Check for physical obstructions between the sensor and repeater.
- Verify the repeater is powered on and its WiFi indicator light is active.

- **App Not Receiving Alerts:**

- Confirm your smartphone has an active internet connection.
- Check app notification settings on your phone and within the GeniLife APP.
- Ensure the sensor and repeater are properly paired and communicating.

- **Inaccurate Readings:**

- Verify the sensor is installed correctly and securely on the tank.

- Ensure the sensor's ultrasonic path is clear of any obstructions inside the tank.
 - Confirm the tank type and liquid are within the sensor's specified operating range (1 to 13 ft).
- **Low Battery Warning:**
 - Ensure the solar panel on the sensor is clean and exposed to sufficient sunlight.
 - During prolonged cloudy periods, the battery may take longer to recharge.

6. SPECIFICATIONS

Feature	Specification
Model	B0FHTQQ5RP
Brand	Generic
Color	Grey
Power Source	Solar Powered (5V solar panel, 1500mAh lithium battery)
Battery Life	Up to 6 months (on full charge, even during continuous rainy days)
Compatible Devices	Smartphone, Tablet (via GeniLife APP)
Connectivity	2.4G/5G WiFi
Signal Range	Up to 330 ft (100 meters) with repeater
Measurement Type	Non-contact ultrasonic
Measurement Range	1 to 13 ft (liquid height)
Waterproof Rating	IP65
Product Dimensions (Sensor)	Approx. 2"L x 1"W x 1"H (main body, excluding threads)
Product Dimensions (Repeater)	Approx. 3.4"L x 2.5"W (as per image)
Drill Hole Size	2 1/2 inches (63.5 mm)

Size

- Drill hole size: 2 1 / 2 inches



**Repeater
(signal booster)**



**Solar-powered
liquid level monitor**

Image 6.1: Detailed dimensions for both the repeater (signal booster) and the solar-powered liquid level monitor, including the recommended drill hole size for installation.

7. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the documentation included with your purchase or contact the seller directly. Warranty terms may vary depending on the region and retailer.