



RMG AUTOMATION

+91 9940594413

Wireless Water/Liquid Level Indicator

Model : WWLI



User Manual

1. INTRODUCTION

Water saving is very important to address the water scarcity problems we are facing today. We RMG Automation introduce a user friendly product for addressing these problems with which you can save your money, time and energy. Wireless water level indicator continuously indicates water/liquid levels in a tank. It also has buzzer alarms for tank empty and tank full

WWLI has two parts, a transmitter and an indicator. It uses Long Range Radio frequency signal 433MHz which can cover the distance up to 700-1000 meters. Indicator unit can be placed in your desired location and transmitter unit nearby your tank area.

2. DESCRIPTION

2.1 INDICATOR

- **POWER ON LED**– This LED shows the ON/OFF status of the device
- **LOW BATTERY LED**– This LED shows the transmitter battery status. When battery is about to die it blinks
- **LEVEL INDICATOR LEDs**– These LEDs shows the water levels of the particular tank. There are 5 level indications 20%,40%,60%,80% and 100%
- **YELLOW MUTE SOFT KEY** – Helps to mute the buzzer alarms. Also helps to pair the indicator with transmitter.
- **BUZZER** – gives low beep alarm for 15 seconds when water in tank is low and fast beep alarm for 15 seconds if tank is full.

2.2 TRANSMITTER

- **YELLOW SOFT KEY** – Help to pair the transmitter with indicator.
- **POWER ON LED** – blinks once when battery is connected.

3. TOOLS REQUIRED

- Drill gun
- Simple hammer
- Wooden gattas
- Screws for mounting units on wall
- Line tester
- Wire stripper
- 1.5Sq.mm Wire for power & control wiring
- Insulation tape
- Cable

4. INSTALLATION PROCEDURE

Step 1: Wall mount the Wireless Tank Level Indicator at the indoor location preferably near to window where good signal strength is available.

Step 2: Insert the DC Adapter Pin into the socket of indicator unit. Connect the DC Adapter into the AC Socket.

Step 3: In your water tank location and open the back side of the Transmitter unit by unscrewing it.

Step 4: Once the transmitter unit is opened, you will find a 2AA Battery Holder inside. Insert the 2AA battery in the holder according to the guided terminals. The LED inside the transmitter will blink once while connecting the battery.

Step 5: Close the transmitter unit by screwing it again.



Figure 1: Indicator

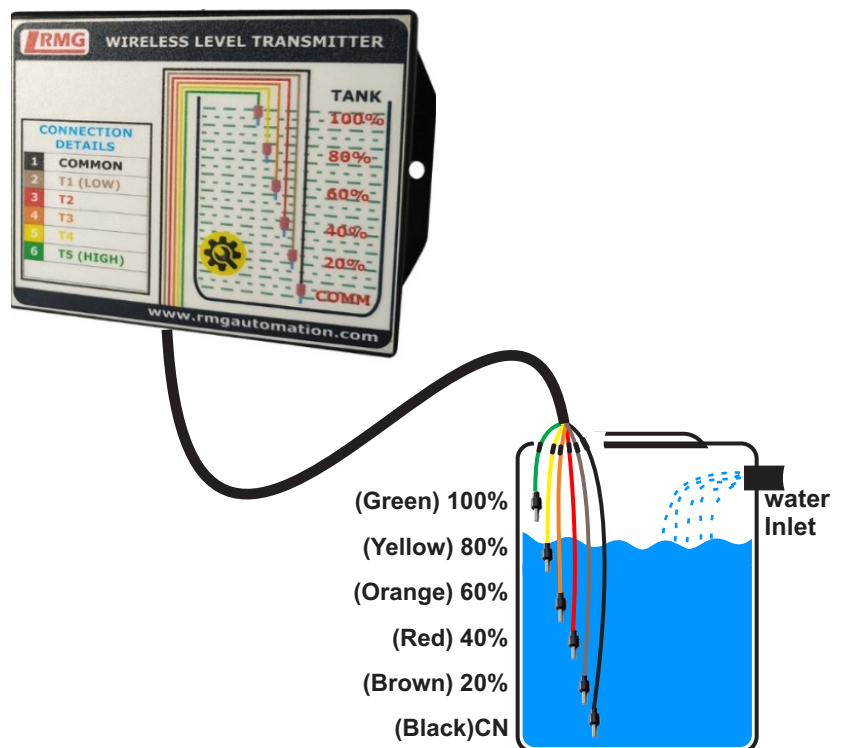


Figure 2: Transmitter

Step 6: Mount the transmitter unit near the water tank where good signal strength is available depending upon the feasibility. Make sure that it does not get wet in rain.

Step 7: Sensor connections.

Contact type sensor connection: Take the sensors and cut them according to the levels of the tank and join them with the sensors lines of transmitter as per color coding. (Refer figure2).

Magnetic float sensor connection: These sensors has 2 wires. Use any one wire in each sensor as common. Other wire left in each can be used for levels.

Step 8: Immerse the sensors in the water tank and place at 20%, 40%, 60%, 80% and 100% levels. (Refer figure2)

This completes the installation.

5. OPERATING PROCEDURE

- Switch ON the DC adapter of indicator unit. Now the power ON LED will glow in the indicator unit.
- Depending upon the water levels in the tank, the level indication LEDs are ON. Furthermore, the levels of the tank will be monitored every 32 seconds and will be updated to the indicator only if there are any changes in the water level.
- If the water level goes low, all LEDs will be OFF and you will hear a low beep alarm for 15 seconds. If water goes to high level all LEDs will be ON and you can hear a fast beep alarm for 15 seconds.

Pairing procedure: Pairing means to make communication between both transmitter and indicator by assigning unique address to the unit.

The units are generally paired and dispatched. In case of any trouble at the time of installation, users can pair the units once again.

- For pairing, press mute/pairing key in the indicator. Without removing the finger, switch on the DC adapter, now all the LEDs will glow. It means indicator is ready to pair.
- In transmitter side, there is push button near AA battery case. Press the push button. Do not take the finger out. Fix the batteries to the case. Then LED in the transmitter unit blink once. As soon as indicator unit gets signal from transmitter unit alarm rings in the indicator meaning that both units are paired. After this units will be ready and monitors the level indications every 32 seconds.

NOTE: Do not cover the transmitter and controller with metal enclosure. It may disturb / loss the RF communication.

6. TROUBLE SHOOTING METHODS

S. No.	Error	Solutions
1	No communication between the indicator and transmitter	<p>a. Check whether any obstrucles are there in between transmitter and receiver units like large trees, buildings etc.(repeaers can be added if necessary).</p> <p>b. Check the battery in transmitter is connected correctly without any loose act.</p> <p>c. Check whether the battery is completely drained out, If so charge the battery using the USB port in it.</p>
2	Tank level indicator LEDs are off	<p>If one or all the level indicator LEDs are not glowing,</p> <p>a. Check common sensor connection is correctly made. If any loose contact correct it.</p> <p>b. Check all the sensor connections are having any loose contact. Also check if the cable lines are intact.</p>