



RMG AUTOMATION

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Automatic Water Level Controller for Tank & Sump

Model : AWLC-101



User Manual

Version 2.1-09/23



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1. INTRODUCTION

Water saving is lifesaving. RMG Automation introduces highly economical model that has basic features in it. This Basic Automatic Water Level Controller automatically turns ON motor when tank is empty ensuring that sump has enough water and turns OFF the motor when tank is full or when sump is empty. It is suitable for Sump to Tank set up.

2. DESCRIPTION

- **Power ON LED:** It indicates the power supply to the unit.
- **Motor ON LED:** It indicates the motor ON condition.
- **SUMP LED INDICATION:** It helps to indicate the availability of water level in the sump.
- **MANUAL/AUTO MODE SWITCH:**

Auto mode: In AUTO mode, motor will automatically switch ON when the water level in the tank is low and automatically switch OFF when the tank becomes full.

Manual mode: Helps to switch ON the motor manually. In this mode, the motor will be constantly running.

Semi-Automatic: Manual ON and Auto OFF. Just keep the controller in MANUAL mode for the motor to get switched ON and then change it to AUTO mode for Automatic OFF.

3. TOOLS REQUIRED

- 2 pair or 4 core communication cable.
- Drilling Machine
- Simple hammer
- Wooden gattas
- Screws for mounting units on wall
- Line tester
- Wire stripper,
- 1.5Sq.mm Wire for power connections
- Insulation tape

4. INSTALLATION PROCEDURE

Caution: Switch off the main power while doing the Power Connection Steps.

Step 1: Wall mount the controller unit nearby motor pump switch/starter location.

Step 2: Connect AC 230V to Red and Black wires of the controller respectively (refer figure 1 and 2)

Step 3: For Switch or MCB, connect Blue pair wires to the switch/MCB of the motor as shown in figure 1.

Step 4: For starter, connect the blue pair wires to ON button of starter in parallel and black wires to OFF button in series (refer to figure 2)

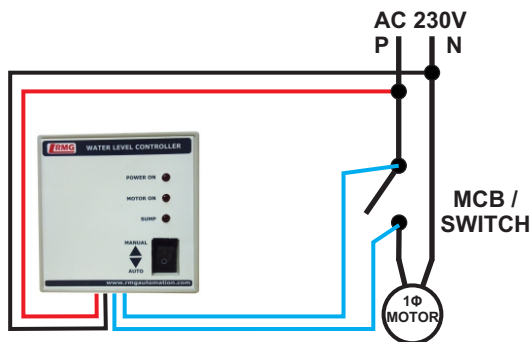


Figure1: 1Φ SWITCH/MCB

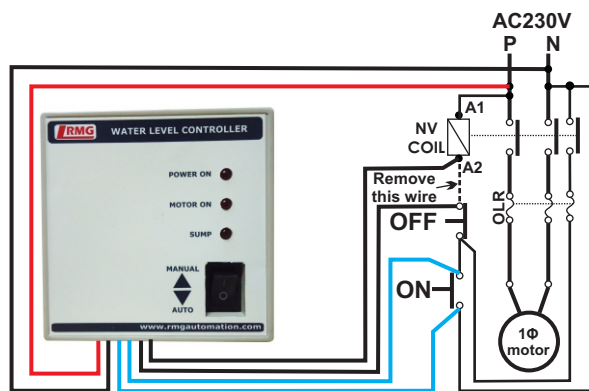


Figure2: 1Φ Starter

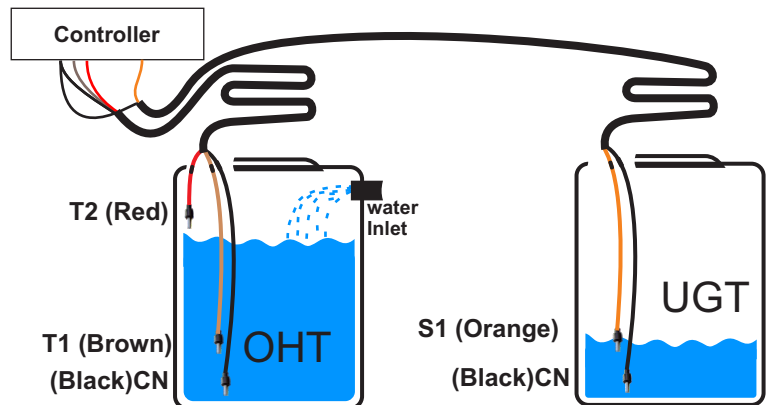


Figure3: contact type sensor connection

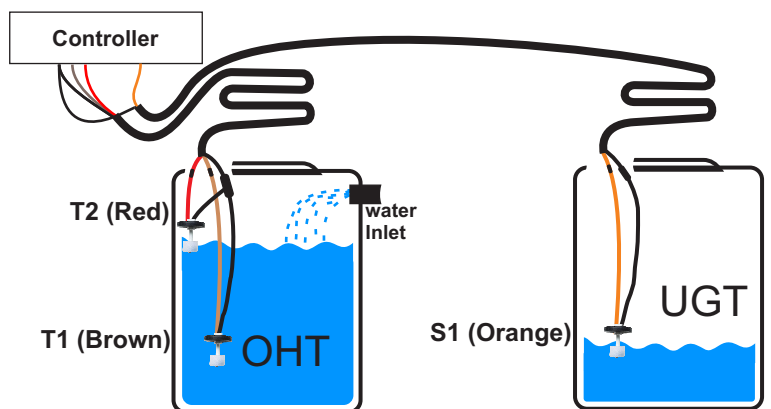


Figure4: Magnetic float sensor connection

Note: In case of doubts in installation, please call 044 - 43180017 or What's App 9940594413 from Monday to Saturday 10 am to 6 pm.

Step 5: Lay 4 core cable between controller and tank. Join one end of the 4 core cable to sensor line of the controller as per colour coding. In tank side, **Contact type sensor connection:** Take the sensors and cut them according to the levels of tank and join them with the 4 core cable as per label coded. (Refer figure 3).

Magnetic float sensor connections: These sensor has 2 wires. Use any one wire in each sensor as common. Other wires left in each can be used for levels. Join them with 4 core cable as per label coded. (Refer figure 4)

Step 6: Immerse the sensors inside the OHT & UGT as per Figure, and tape it. This completes installation.

5. OPERATING PROCEDURE

- Keep the Manual/Auto mode switch in Auto mode for automatic operation.
- Give power to the Controller, Power ON LED will glow.
- When Over Head Tank (OHT) level goes low, controller turns ON the motor. Then MOTOR ON LED will glow. This operation occurs only when water is present at Under Ground Tank (UGT). SUMP LED will be ON in this condition.
- When Over Head Tank (OHT) is full or when UGT level becomes empty (SUMP LED in OFF condition), the controller turns OFF the motor and MOTOR ON LED will be OFF.
- In manual mode, Motor will be continuously running. MOTOR ON LED will be ON.

6. TROUBLE SHOOTING METHODS

S. No.	Error	Solutions
1	Device dead / Not Powered ON	a. Check the power connection wires for loose contacts. b. If problem persists, contact RMG Automation for support.
2	Motor not switching ON	a. Check whether the connections are given properly. b. If connections are okay and still issue persist, contact RMG Automation for support.