

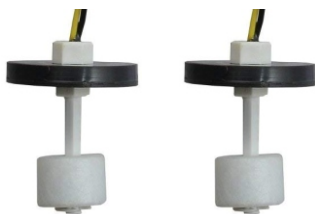


RMG AUTOMATION

+91 9940594413

Automatic Water Level Controller for Tank only

Model : AWLC-110



User Manual

Version 2.1-09/23



<http://rmgautomation.com>



rmgworld@hotmail.com

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 and turns OFF the motor when tank is full. It is suitable for Borewell To Tank set up.

2. DESCRIPTION

- **POWER ON LED** – shows ON/OFF status of device.
- **MOTOR ON LED** – Glows when motor is in ON condition
- **TANK FULL LED** – glows when tank is full
- **MANUAL/AUTO Switch** -- manual/auto mode select 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.

This controller unit has a semi-automatic function (Manual ON and Auto OFF function). 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

- Single or 2 pair communication cable.
- Drill gun
- Simple hammer
- Wooden gattas
- Screws for mounting units on wall
- Line tester
- Wire stripper,
- 1.5Sq.mm Wire for power connections
- Cable - 6 core
- 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 wire of the controller to the switch/MCB of the motor in parallel as shown in figure 1.

Step 4: For starter, connect blue pair wire to ON button of starter in parallel and black pair wire to OFF button in series (Refer figure. 2)

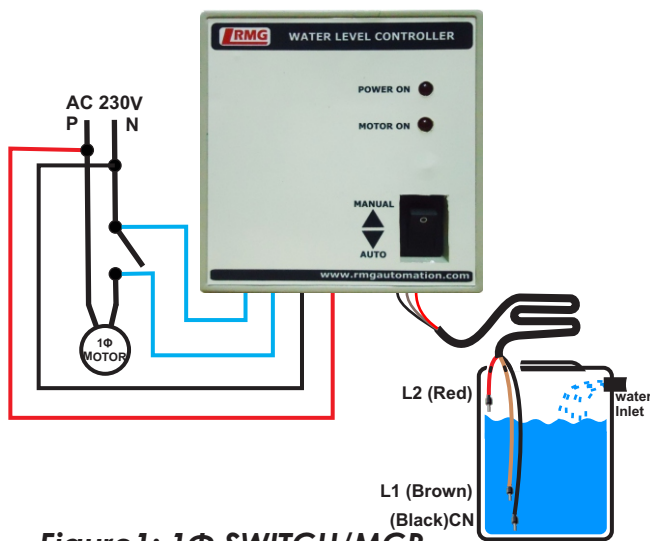


Figure 1: 1Φ SWITCH/MCB

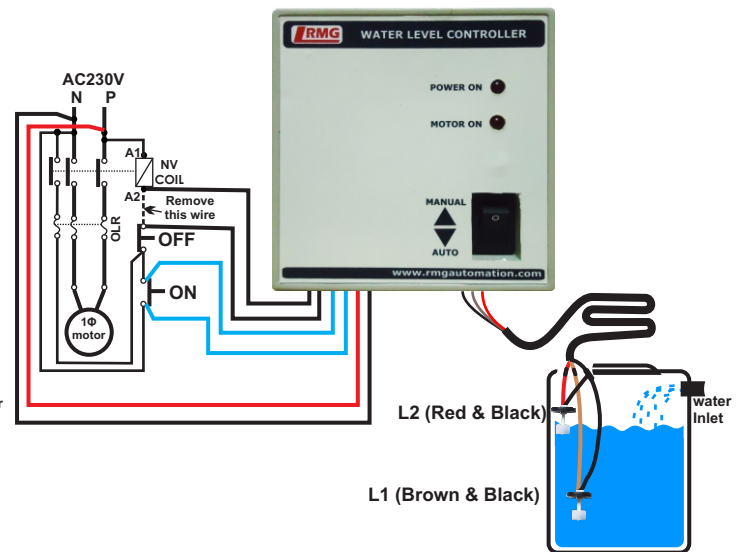


Figure 2: 1Φ Starter

Note: In case of doubts 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 connector of controller as per label. In tank side, **Contact type**

sensor connection: 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).

Magnetic float sensor connection: 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.

Step 6: Immerse the Sensors inside the Over Head Tank (OHT) and tape it. Sensor should be in 100% of tank. (Refer figure. 4)

This completes installation.

5. OPERATING PROCEDURE

- Keep the Manual/Auto mode switch in Auto mode for automatic operation.
- Give power to the unit, Power ON LED will glow.
- When Tank level goes low, controller turns ON the motor. Then MOTOR ON LED will glow.
- When tank is full, the controller turns OFF the motor and MOTOR ON LED will be OFF.
- In manual mode, TANK FULL LED will be ON when tank is full and MOTOR ON LED also in ON position since motor is continuously running.

6. TROUBLE SHOOTING METHODS

Sl. No.	Error	Solutions
1	Device dead / Not Powered ON	a. Check the power connection wires for loose contacts. b. If problem continues, 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