

Automatic Water Level Controller with Low/High Voltage Protection & Timer

Model : AWLCWT



User Manual

1. INTRODUCTION

We introduce a new variant Digital Automatic Water Level Controller with Low/High Voltage Protection with Timer features, one of the unique device offered with best price in India. It is a very economical model with most possible features specially designed with precision for all sects of economic groups and also for different industrial applications. It is manufactured with high standards Micro Controller Based Technology in a compact design. It also fulfills the varied specifications according to the requirements of the customers. This product is designed with basic auto on/auto off function of the motor, incorporated hand in hand with the on/off cyclic timer functions.

This water level controller is switching ON/OFF the motor pumps based on the ON/OFF set time along with water overflow & sump level sensors. You can set single ON & OFF time for the cyclic from minimum of 1 minutes to maximum 9 hours. In addition to that, it will also switch OFF the motor pump and stop run the timer when the tank is full or sump empty in case of sump users. The OFF timer will start run when the tank full led is OFF from ON or when the sump OK led is ON from OFF.

2. DESCRIPTION

- **Power ON/OFF switch:** This switch is provided at the right side of the device to switch ON /OFF the controller unit. There is a power ON delay of 6 seconds.
- **Fuse:** Auto cut off in event of any excessive current.
- **Power ON LED:** shows ON/OFF status of timer.
- **Motor LED:** shows Motor Pump ON status.
- **Volt LED :** indicates voltage. .
- **Timer LED:** blinks when timer is working.
- **Tank Full:** It glows when Over head tank (OHT) is full.
- **Sump OK:** It shows whether the sump (underground Tank) has enough water or empty.
- **Seven Segment Display :** Displays settings/status of the timer..
- **SET key:** It is used for entering the menu and to save the settings.
- **NEXT key:** It is used for moving to the NEXT options like Menu, Successive Locations.
- **INC key:** Used to set the values in date, time, password.

3. TOOLS REQUIRED

- | | |
|---|-----------------|
| • Single pair or 2 pair communication cable | • Line tester |
| • Multistrand power cable | • Wire stripper |
| • Insulation tape | • Simple hammer |
| • Wooden Gattas | • Drill gun |
| • Screws for mounting unit on wall | |

4. INSTALLATION PROCEDURE

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

Step 1: Wall mount the timer nearby the switch of motor pump switch/starter location.

Step 2: As per the model purchased, check the label and connect AC supply (230V / 440 V) to red and black wire of timer refer figure 1.

Step 3: For switch or MCB, Connect blue pair wire 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 to figure. 2 and figure. 3)

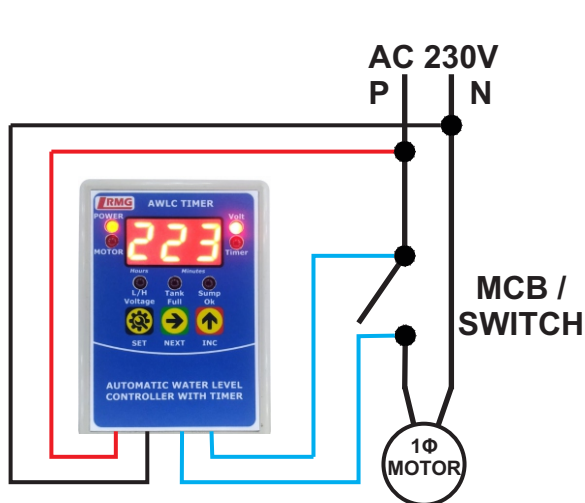


Figure1: 1Φ SWITCH/MCB

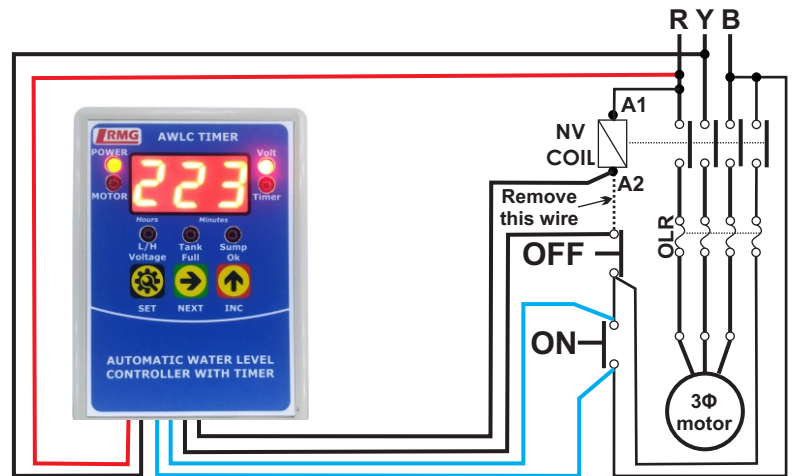


Figure2: 3Φ Starter

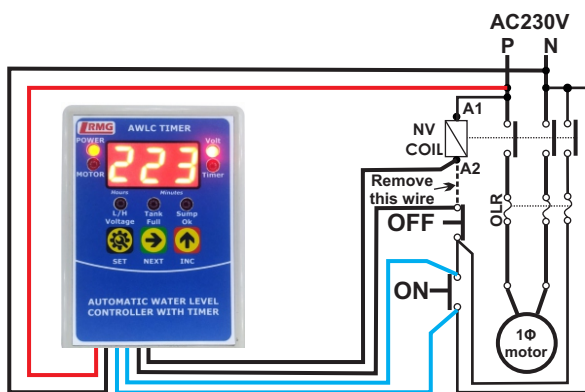


Figure3: 1Φ Starter

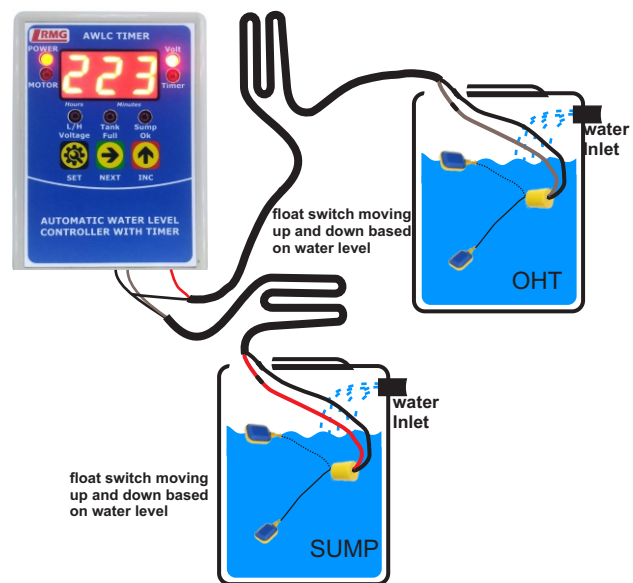


Figure4: water float switch connection

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 2 core cable between timer and Overhead tank (OHT) and between timer and Sump. Immerse the Float Switches inside the Over Head Tank (OHT) and Sump. Connect sensor lines from timer to water float switch in sump OHT (refer figure 4)

This completes installation.

5. OPERATING PROCEDURE

- Switch ON the device using the power ON/OFF switch. It displays rA9 There is a power ON delay of 6 seconds.
- Using SET, NEXT and INC keys program the timer. Refer **Programming methods** for more programming.
- Depending upon the position of the float switches on Sump and OHT, timer responds. If the float position is in low level in OHT and high level in Sump, the motor gets ON for the set time till tank full, whereas, timer functions does not happen if tank full.
- If the float switch is at low level in Sump (no water in sump) and OHT then motor does not gets ON.
- It does not retain the latest memory. If power fails and resumes, timer starts from the first with the ON program provided if water level in the tank is low.

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

7. PROGRAMMING METHODS

