

Single/Three Phase Wireless Mobile Water Level Controller

The GSM Mobile Starter is used to switch ON or OFF your motor pump from anywhere in the world. It will control your motor pump via SMS or giving CALL. Along with this operation, overflow of water from the tank is prevented by switching off the motor when tank is full.

SIMPLE COMMANDS FOR MOTOR ON/OFF CONTROL WITH YOUR MOBILE

| S.No. | SMS COMMAND TO GSM SIM | EXAMPLE | DESCRIPTION |
|-------|------------------------|---|---|
| 1 | 00 | 00 | It denotes the Power ON time. |
| 2 | 10 | 10 | It will switch OFF the motor pump. |
| 3 | 11 | 11 | It will switch ON the motor pump. |
| 4 | 12 | 12 | It gives the ON/OFF status of your motor pump. |
| 5 | 13 | 13 | It Disables AUTO ON operation when tank is empty. |
| 6 | 14 | 14 | It Enables AUTO ON operation when tank is empty. |
| 7 | 70 | 70 | Activates for ANY USERS. |
| 8 | 71 | 71 | Activates for REG. USERS. |
| 9 | 80 | 80 | It disables the AUTO REPLY SMS facility. |
| 10 | 81 | 81 | It enables the AUTO REPLY SMS facility. |
| 11 | 90 | 90 | It gives the registered users list. |
| 12 | 9XY | 919940594413 92YYYYYYYYYYY 93YYYYYYYYYYY | It helps to store the user numbers (X-User 1, 2, 3, 4, 5 YYYYYYYYYYY-Mobile number). It is same for 4 th and 5 th user (94YYYYYYYYYYY and 95YYYYYYYYYYY) |
| 13 | * | * | It helps us to know the setting status. |
| 14 | LC0 | LC0 | It disables 3-Phase Line Checking |
| 15 | LC1 | LC1 | It enables 3-Phase Line Checking |
| 16 | FD0 | FD0 | It disables Feedback Alert for Manual Motor ON / OFF |
| 17 | FD1 | FD1 | It enables Feedback Alert for Manual Motor ON / OFF |
| 18 | ASET | ASET | It enables for Automatic Current Setting for Overload and Dry Run. This command functions only when motor is running. |
| 19 | OLXX | OL15 | It helps to enter the overload current setting manually. Eg. 15 Amps is set as Overload Current. |
| 20 | ULXX | UL05 | It helps to enter the underload current setting manually. Eg. 5 Amps is set as Underload Current. |
| 21 | STX-HH:MM,HH:MM | ST1-06:00,06:30 ST2-19:00,19:30 ST3-11:15,11:45 ST4-08:00,09:30 ST5-22:00,05:00 | It helps to schedule the ON time and OFF time. Totally 5 slots can be scheduled. (Note - Use 24 hour format) |
| 22 | SCT | SCT | It lists the scheduled time slots. |
| 23 | SCTR | SCTR | It helps to reset the scheduled time slots. |
| 24 | T-HH:MM | T-00:20 | It helps us to use as a Delay / Stop Timer . Motor get ON once the time is set and will get switched OFF after the set time is over. Eg. After 20 minutes, motor will get OFF. |

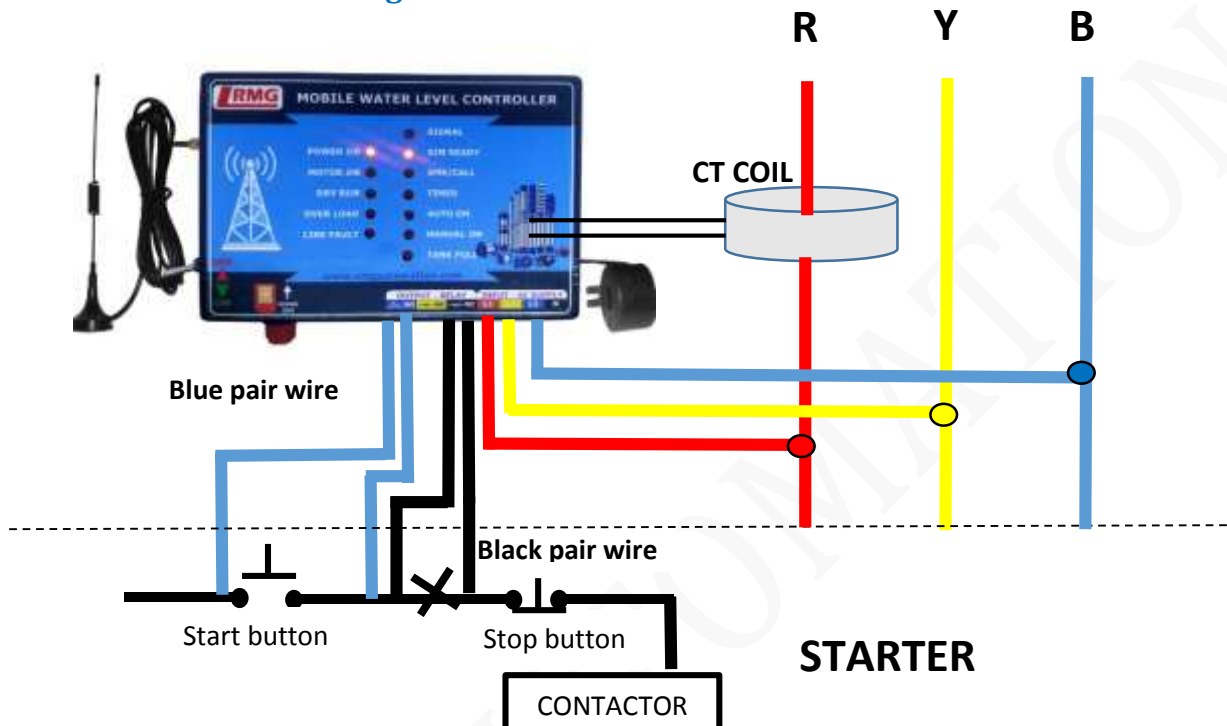
MISSED CALL FOR ON/OFF CONTROL

MOTOR ON/OFF COMMAND MESSAGE

| S.No | COMMAND | DESCRIPTION |
|------|-------------------------------------|-------------|
| 1 | Call cuts off after Long ring (>4) | MOTOR ON |
| 2 | Call cuts off after Short ring (>2) | MOTOR OFF |

| S.No | COMMAND SMS | DESCRIPTION |
|------|-------------|-------------|
| 1 | 11 | MOTOR ON |
| 2 | 10 | MOTOR OFF |

Starter Connection Diagram:



Picture 1.

Installation steps of GSM Controller:

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

- ❖ **Step 1:** Insert your GSM SIM in the SIM slot given as shown in the GSM controller.
- ❖ **Step 2:** Wall mount the GSM controller by using the screws in the given slots on its sides.
- ❖ **Step 3:** Remove the 'R' wire from starter & insert into the CT coil, and connect it back to the starter.
- ❖ **Step 4:** Connect L1, L2, L3 to R, Y, B input line of the starter respectively.
- ❖ **Step 5:** In your starter, Connect Blue pair wire of the controller to the start button in parallel as shown in the Picture 1.
- ❖ **Step 6:** Trace the wire that connects the start and stop button terminals. Remove this wire from the stop button and join it with the any one black wire of Relay Black Pair.
- ❖ **Step 7:** Connect the Left out black wire of Relay Black Pair to the stop button where the wire was removed as shown in the Picture 1.
- ❖ **Step 8:** Connect the GSM antenna in the slot provided on the left side of the controller.
- ❖ **Step 9:** Connect the sensor output to the water float switch through 4 pair communication cable.

If the starter is not matching with the above suggested connection kindly What's app us on 9940594413 or call 044-43180017 for support!!!!

Share the starter photo front panel and opened panel photo in what's app.

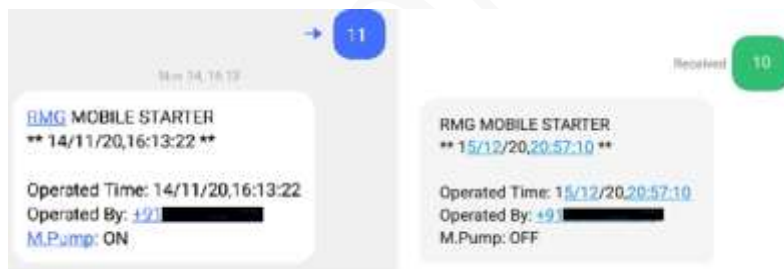
- ❖ **Step 7:** Verify all the connections and then Switch ON the controller.

Operating procedure:

- ❖ **Step 1:** Switch ON the controller with the help of a button provided on its left side. Power ON LED will get ON.
- ❖ **Step 2:** After few seconds, GSM "Signal" LED blinks every one sec trying to get connected to the network. Further, it blinks every 3 sec that ensures the GSM has been connected to the network.
- ❖ **Step 3:** The "SIM READY" LED will blink for some time and then glow constantly. The constant glowing indicates that SIM is ready and connected to the network. In this condition, you can access the GSM controller to control the motor pump.
- ❖ **Step 4:** Send SMS to the GSM SIM as **"91YYYYYYYYYY"** (Y is your 10 digit mobile number). **Below is the message that you will receive. (For registering other 4 users, refer Command Table on the Top)**



- ❖ **Step 5:** Send SMS to the GSM SIM as **"81"** if AUTO REPLY from GSM SIM is required.
- ❖ **Step 6:** Send SMS Command **"11"** for motor pump ON and **"10"** for motor pump OFF.



- ❖ **Step 7:** Motor Pump can be turned ON/OFF by giving a call also. While giving a call to the GSM SIM, the controller will cut the call after 4 rings and switch ON the motor pump (when the pump is OFF). Similarly, by giving another call, the controller will cut the call after 2 rings and switch OFF the pump (when pump is ON). We can ensure the status of motor whether it is ON or OFF with the number of rings also.
- ❖ **Step 8:** To know the status of the motor pump use the command **"12"**.
- ❖ **Step 9: For automatic operation,** send command **"14"**, motor automatically starts and stops based on the water level. When tank is empty, motor gets ON and when tank is full, motor gets OFF.



- ❖ **Step 10:** For other operations, refer table (Page 1) for the commands.

NOTE: Do not use " " double quotes while sending the SMS.

Trouble shooting:

Power Fail:

- ❖ Check whether input supply is correctly given.
- ❖ Check whether the GSM power switch position is “ON”.
- ❖ Check fuse is in good condition. If fuse is failed or burnt replace it with 300 Milliamps. Don't use more than that.

Motor not switching ON:

- ❖ Start Relay:
 - Check whether connection of start relay (Blue pair wire) is properly given.
 - Check start relay - It must be Normally Open. Start relay will become closed for 1-3 seconds while motor ON. Verify it using continuity tester or Multi-meter.

Motor not switching OFF:

- ❖ Stop Relay:
 - Check whether connection of stop relay (Black pair wire) is properly given.
 - Check stop relay - It must be Normally Closed. Stop relay will become open for 3 seconds while motor OFF. Verify it using continuity tester or Multi-meter.

SMS/CALL not working:

- ❖ SIM card:
 - Check if SIM card is properly inserted as per the image shown in the GSM unit.
 - Make sure that SIM Card has 2G support. Don't use SIM Cards that support 4G alone like JIO SIM.
- ❖ GSM antenna location:
 - Keep it outside and don't enclose it.
- ❖ Antenna wire laying:
 - Make sure that GSM antenna wire is laid separately. Don't take it along with power wires.
- ❖ GSM signal LED:
 - Check if it is blinking for every 3 seconds – Network connected.
 - If blinking every 1 second – Network Issue – Change another good network SIM card.

NOTE: For further assistance please do contact us on what's app 9940594413.