Smart Water Tank Switch

Features:

- Motor switch will On/Off automatically.
- User can set tank height
- User can set when to turn on switch automatically.
- User can set when to turn off switch automatically.
- User can see water percentage at device display
- Also user can turn on/off switch manually.
- User can set a time like alarm. Everyday at that time motor will be turned on & turned off at turn-off percentage automatically.
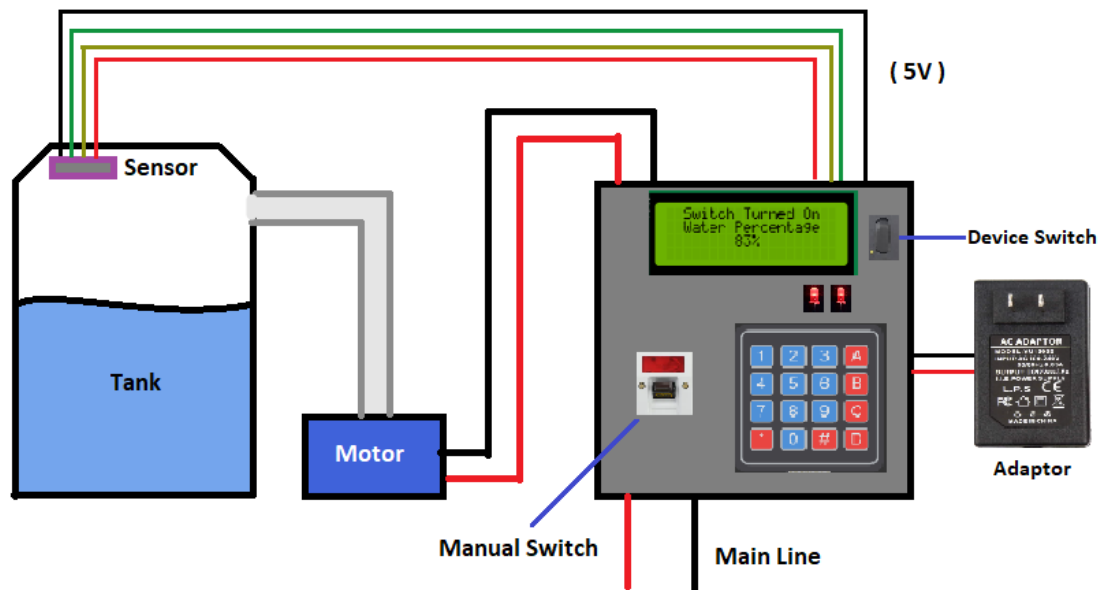
Urgent Features:

- If suddenly device not work or anyone want to turn On motor at any cost, then motor can be turned On using manual features.
- If anyone want to turn Off motor at any cost, then motor can be turned Off using device switch.

Component:

- Arduino Uno x1
- WATERPROOF Ultrasonic Sensor x1 (Max distance: 4.5 meter)
- LCD Display x1
- Keypad x1
- RTC Module x1
- Relay (12V 30A Power Relays) x2
- Red & Green LED x5 &5
- Battery/Adaptor (9V) x1

Real Life Application:

Example Simulation:

https://wokwi.com/projects/369934930201693185