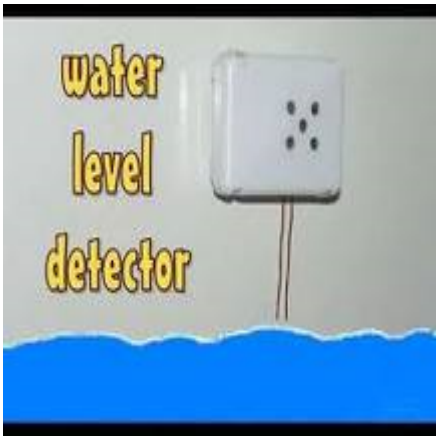
WATER LEVEL INDICATOR WITH ALARM

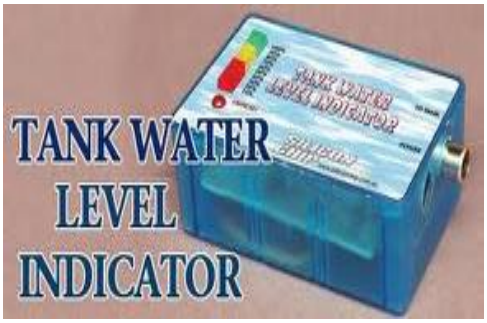


•This circuit not only indicates the amount of water present in the overhead tank but also gives an alarm when the tank is full.

•The circuit uses the widely available CD4066, bilateral switch CMOS IC to indicate the water level through LEDs
When the water is empty the wires in the tank are open circuited and the 180K resistors pulls the switch low hence opening the switch and LEDs are OFF.

•As the water starts filling up, first the wire in the tank connected to S1 and the + supply are shorted by water.

•This closes the switch S1 and turns the **LED1 ON**. As the water continues to fill the tank, the LEDs2 , 3 and 4 light up gradually.



•The no. of levels of indication can be increased to 8 if 2 CD4066 ICs are used in a similar fashion.

•When the water is full, the base of the transistor **BC148** is pulled high by the water and this saturates the transistor, turning the buzzer ON. The SPST switch has to be opened to turn the buzzer OFF.

•Remember to turn the switch ON while pumping water otherwise the buzzer will not sound!

- Automatic Switching on/off motor pump.
- Saves over-flow and spillage od water.
- No burning of motor due to dry running and air locking.
- Requires no attendent and maintenance.
- Display level of water in the Tank.
- Compatible with Timer for real time operations.
- Saves Voltage