



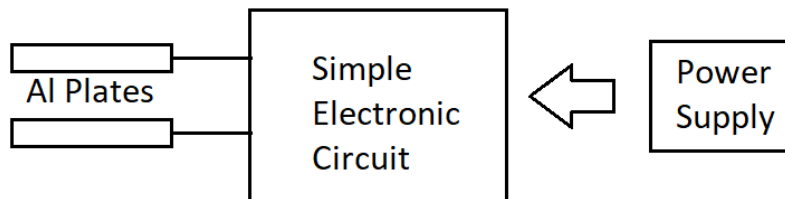
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SYNOPSIS FOR SIMPLE WATER OVERFLOW ALARM

INTRODUCTION:

The Water Overflow Alarm project aims to provide a simple yet effective solution for detecting water overflow in tanks, basins, or any other water storage systems. The alarm system helps prevent wastage of water, potential property damage, and provides an early warning for users to take necessary actions.

BLOCK DIAGRAM:



COMPONENTS LIST:

- BUZZER
- SWITCH
- BATTERY CAP
- 9V BATTERY
- RESISTOR 470 Ohm X 2
- RED LED
- GREEN LED
- PCB
- Aluminum Plate With Wire X 2

WORKING:

The water overflow alarm system consists of a basic circuitry that detects the presence of water and triggers an audible alarm. The working principle is as follows:

- The circuit is powered by a 9V battery, providing the necessary electrical energy.
- An aluminium plate is used as a sensor. When the water level rises and touches the aluminium plate, it completes the circuit.
- The completion of the circuit between the aluminium plate and the negative terminal of the battery activates the buzzer.
- The buzzer produces a loud sound, alerting the user about the water overflow.
- When the water level goes below the aluminium plate, the circuit is broken, and the buzzer stops.

APPLICATION:

The water overflow alarm system finds various applications in different settings, including:

- Residential buildings: It can be installed in water tanks to prevent overflow, especially in areas with irregular water supply or fluctuating water pressure.
- Commercial buildings: It can be used in basins or sinks to avoid water wastage and potential damage due to overflow.
- Industrial facilities: The alarm system can be incorporated into large storage tanks, ensuring efficient water management and reducing the risk of overflow accidents.

ADVANTAGES:

The water overflow alarm project offers several advantages, including:

- **Cost-effective:** The system utilizes readily available and affordable components, making it a cost-effective solution.



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- **Easy to assemble:** The project requires basic electronic components and minimal technical expertise, allowing for easy assembly and installation.
- **Energy-efficient:** The alarm system operates on a 9V battery, consuming low power and ensuring prolonged battery life.
- **Versatile:** The project can be adapted to various water storage systems, catering to different applications and environments.

CONCLUSION:

In conclusion, the water overflow alarm project provides a simple yet practical solution for detecting water overflow. By using an aluminum plate as a sensor and a buzzer as an alarm, it effectively alerts users about potential overflow situations. This project report highlighted the introduction, working principle, applications, advantages, and conclusion of the water overflow alarm system. By implementing this project, users can significantly reduce water wastage, prevent property damage, and enhance water management in different settings.

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