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# WATER LEVEL SENSOR

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electrical circuits



DECEMBER 31, 2411

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## Introduction

A water level sensor is a device used to measure and monitor the level of water in tanks, reservoirs, wells, or other water storage systems. It provides valuable information about the quantity of water present, allowing for efficient management of water resources.

Water level sensors are commonly used in various applications, including:

1. **Municipal water supply:** Water level sensors are used in water treatment plants, storage tanks, and distribution systems to monitor water levels and ensure a reliable water supply to households and businesses.
2. **Irrigation systems:** Water level sensors help in managing irrigation by monitoring water levels in reservoirs or storage tanks. This ensures that an adequate water supply is available for irrigation purposes, optimizing water usage and preventing overwatering.
3. **Flood monitoring:** Water level sensors are crucial in flood monitoring and early warning systems. They can detect rising water levels in rivers, streams, or flood-prone areas, providing timely alerts to residents and authorities to take necessary precautions.
4. **Environmental monitoring:** Water level sensors play a role in monitoring water levels in lakes, rivers, and groundwater systems. This data is essential for assessing water availability, tracking changes in water bodies over time, and managing ecosystems.
5. **Industrial applications:** Water level sensors are used in industrial processes that require precise control of water levels, such as cooling systems, wastewater treatment plants, and chemical processing.

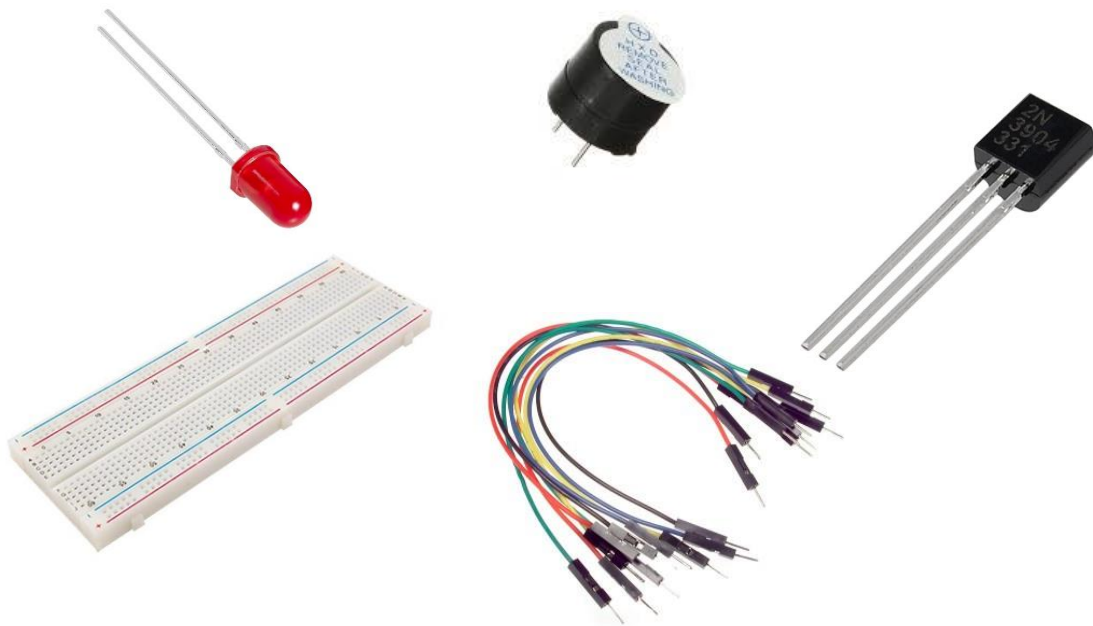
Water level sensors can utilize various technologies, including pressure sensors, float switches, ultrasonic sensors, capacitive sensors, or conductivity sensors. Each technology has its advantages and is selected based on the specific application requirements.

In summary, water level sensors provide real-time information on water levels, enabling efficient management of water resources, preventing water-

related disasters, and ensuring the availability of water for various applications.

### Use in this project

1. LED red
2. LED yellow
3. LED green
4. Active Puzzer
5. 3 - Transistor NPN
6. BreadBoard
7. Wires



The cat was connected as shown in the figure below

The green light means that the tank is full

The yellow bulb has half of the tank in it

The red tank is empty

When the tank is full, an alarm sounds

