



Smart Water Overflow Controller: A Solution for Water Conservation

Discover how our intelligent system revolutionises water management, preventing wastage and ensuring sustainable practices for a brighter tomorrow.

The Problem: Wasted Water and Manual Monitoring



Unnecessary Water Wastage

- Residential and commercial properties often face significant water loss due to overflowing tanks.
- This leads to higher utility bills and contributes to water scarcity issues.

Inefficient Manual Monitoring

- Current methods rely on human intervention, which is prone to error and can be time-consuming.
- Lack of real-time alerts means overflows are often detected too late.



Introducing Our Smart Water Overflow Controller

Our innovative device is engineered to autonomously manage water levels, providing a seamless solution to prevent overflows and conserve this precious resource.

Automated Water Management

Real-time Efficiency

Sustainable Living

How It Works: Sensors, Logic, and Actuation

Sensor Detection

Advanced water level sensors continuously monitor the water tank, detecting rising levels.

Intelligent Processing

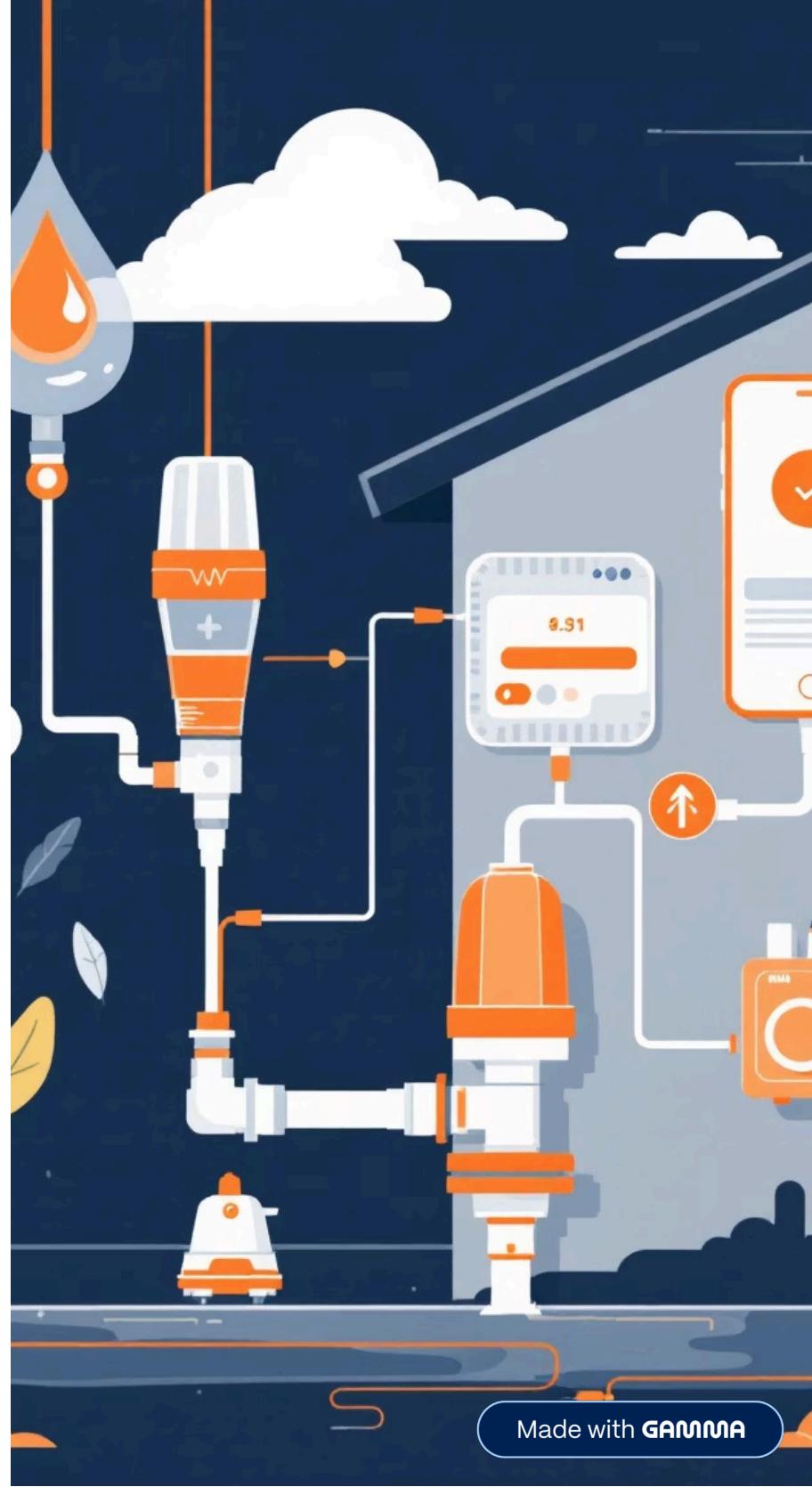
Data is fed to a microcontroller, which processes the information against pre-set thresholds.

Automatic Actuation

Upon detecting an overflow risk, the system automatically shuts off the water supply.

Instant Notifications

Users receive immediate alerts via mobile or email, ensuring awareness and control.





Key Features: Real-time Monitoring, Automatic Shut-off, Alerts



Real-time Monitoring

Access live water level data and system status through our intuitive mobile application.



Automatic Shut-off

The system autonomously cuts off water flow once a pre-defined maximum level is reached.



Instant Alerts

Receive immediate notifications on your smartphone or email for any detected overflow events.



Customisable Settings

Adjust water level thresholds and alert preferences to suit your specific needs.

Benefits: Water Savings, Cost Reduction, Environmental Impact



Significant Water Savings

Eliminate water wastage from overflows, conserving thousands of litres annually.

Reduced Utility Bills

Directly lower your monthly water expenses by preventing unnecessary water loss.

Positive Environmental Impact

Contribute to global water conservation efforts and a more sustainable planet.

Peace of Mind

Enjoy worry-free water management, knowing your system is protected 24/7.

Technology Stack: Hardware and Software Components

Microcontroller Unit (MCU)

The brain of the system, processing sensor data and controlling actuators.

Mobile Application

User-friendly interface for monitoring, control, and customisation.



Connectivity Module

Enables seamless communication with your home network and mobile devices.

Precision Sensors

High-accuracy sensors for reliable water level detection.

Smart Valve Actuator

Automated mechanism to shut off water supply precisely when needed.

Case Studies/Use Cases: Homes, Apartments, Commercial Buildings

Residential Homes

Ideal for preventing tank overflows in individual houses, protecting property from water damage.

Apartment Complexes

Manages water levels across multiple units, reducing collective water waste and disputes.

Commercial Buildings

Ensures efficient water use in offices, hotels, and industrial facilities, leading to significant cost savings.



Competitive Advantage and Future Enhancements

Our Edge:

- Robust and reliable hardware with long-lasting performance.
- User-friendly interface with advanced customisation options.
- Seamless integration with existing smart home ecosystems.
- Exceptional customer support and warranty.

Future Roadmap:

- Integration with AI for predictive maintenance and anomaly detection.
- Solar-powered models for enhanced sustainability.
- Expanded compatibility with various water systems and tank types.
- Voice command integration for hands-free control.



Q&A and Call to Action: Join Us in Conserving Water

We are here to answer your queries and invite you to be a part of the water conservation movement. Let's make a difference, together!

[Contact Us](#)[Learn More](#)