

Eulerian Bots

AQUA LMS

Smart IoT-Based Level Monitoring

Water Level | Temperature | Humidity



Key Features

- 01 Automated Level Detection:**
 Continuously monitors liquid levels (water, oil, chemicals, etc.) and sends instant alerts when predefined thresholds are reached.
- 02 Custom Alerts & Notifications:**
 Configure thresholds and receive real-time alerts via SMS, WhatsApp, and email.
- 03 Advanced Connectivity:**
 Supports integrated 4G/5G/LTE communications for seamless data transfer across industries.
- 04 Rugged, Adaptable Design:**
 Weather-resistant, durable enclosure with long-lasting battery backup, suitable for outdoor and industrial environments.
- 05 Event Triggering:**
 Automatically activates cameras, pumps, or other sensors/devices when critical levels are detected.
- 06 Centralized Management Platform:**
 Monitor and manage all devices through an intuitive, centralized software system with real-time data visualization and analytics.



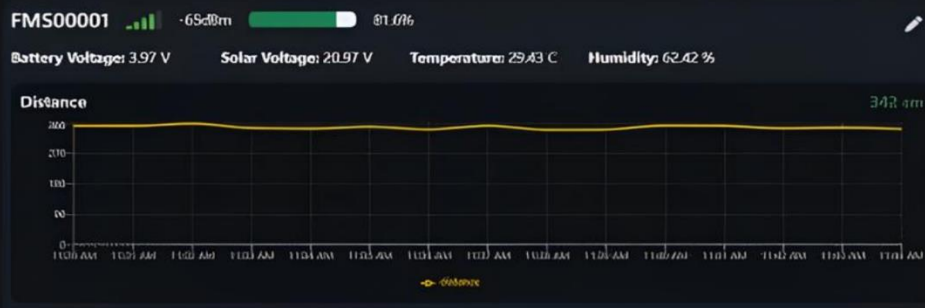
Real-Time Monitoring for Floods, Water, Oil, and More

AQUA LMS

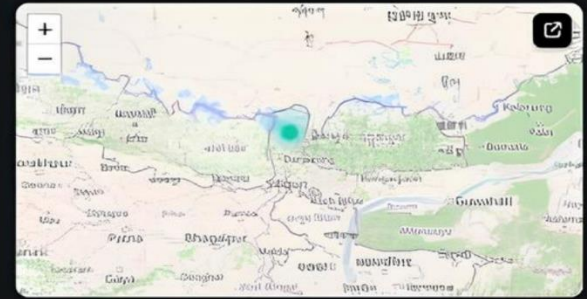
The "AquaLMS" Level Monitoring System is an advanced IoT-based solution designed for real-time, autonomous level detection across a wide range of applications.

From water bodies and flood zones to oil tanks and industrial reservoirs, this versatile system empowers monitoring agencies and businesses with continuous level insights, ensuring informed decisionmaking and rapid responses to critical situations.





1 1 0
Active Inactive Fault



Alerts

FMS00001 11/10/2023, 05:52:12 AM
Alert: Orange | Distance: 90 cm

How It Works

Deploy & Connect:

Easily install AquaLMS in various environments, including water bodies, oil tanks, chemical storage, and industrial facilities.

Monitor & Analyse:

Continuously track liquid levels and stream data to the cloud-based platform for centralized monitoring and analysis.

Receive Alerts & Act:

Instant notifications enable timely actions to prevent overflows, shortages, or safety hazards across applications.

Application Areas

- ✓ Flood & Water Level Monitoring
- ✓ Oil & Fuel Storage Monitoring
- ✓ Chemical Tank Monitoring
- ✓ Industrial Process Control
- ✓ Agriculture & Irrigation Systems
- ✓ Smart Cities & Infrastructure Management

Get Started Today!

Ensure proactive level monitoring and efficient resource management with **AquaLMS** Level Monitoring System.

Contact us for a customized solution to fit your unique industry requirements.



EULERIAN BOTS

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AquaLMS Technical Specifications (Without Camera)

Feature	Description
Non-Contact Water Level Sensor	LIDAR-based ToF distance sensor with an exceptional range of 0.1–40 m @90% reflectivity. It features an impressive blind zone of 10 cm and a maximum frequency of 1000 Hz, delivering precise data capture with high reliability in distance measurement, object detection, and tracking.
Weather Monitoring Sensors	Temperature & Humidity sensors for environmental monitoring.
Autonomous Connectivity Station	Integrated 4G/LTE cellular modem for reliable communication
MPPT Solar Charging System	Ensures efficient solar energy harvesting and battery charging
Battery Backup	10000 mAh Lithium Polymer battery for extended operation.
Battery Protection	Protection against Overcharge, Over-discharge, and Short Circuit
IoT Microcontroller Module	Two CPU cores with independent control, clock frequency adjustable from 80 MHz to 240 MHz.
Enclosure	Water and Dust-proof enclosure for durability.
OLED Display	Displays system vital readings including Charging Status, Battery Health, and Network Connectivity Status

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Camera Module	Back-illuminated, stacked CMOS 12-megapixel Sony IMX708 image sensor for high-resolution image capture.