



AIDirections

Advanced Leak Detection and Alarming System(ALDAS)



Advanced Early-Warning System for Water Leak Protection by
AIDirections | Dubai, UAE | +971 52 521 8026



WHAT IS ALDAS?

ALDAS is an advanced, integrated LoRaWAN-based system from AIDirections designed for early water leak detection. It helps prevent significant damage and boosts building management efficiency across various properties where water leakage poses a high risk to assets and business operations.

KEY FEATURES

- **Real-Time leak detection:** Instantly detects even minor leaks to prevent major damage with multiple alert channels including SMS, notifications, and emails.
- **Wide-Area wireless coverage:** Ideal for high-rise, steel-structured buildings and warehouses.
- **Battery life up to 5 years:** Low-power sensors with minimal maintenance.
- **Security:** Secure communication with role-based access and data encryption.
- **Customization:** Adaptable to the customer's specific requirements.

SYSTEM COMPONENTS

- **Dual Sensing technology:** Sensing water leakage using probes and ropes for diverse environments.
- **ALDAS gateways:** Industry-standard LoRaWAN gateways connecting sensors to networks.
- **ALDAS dashboard & app:** Flood alerts, real-time status of system health, battery.
- **On Site vs Cloud:** Can be deployed on-site the facility's networks or cloud—designed for redundancy and reliability.



APPLICATIONS ACROSS INDUSTRIES

- **Residential:** High-rise building's water damage management and control.
- **Commercial:** Office complexes, malls, and retail environments.
- **Warehouses & industrial facilities:** Help in protecting major assets.



MAINTENANCE & SUPPORT

- **Automated monitoring:** with battery and connection status alerts.
- **Continuous diagnostics:** Real time updates provided by AIDirections' dashboard.
- **Monthly reporting:** of alarms, locations, and oversight.