FLOODALERT DETECTION AND NOTIFICATION SYSTEM

Proactive Unattended 24/7 Flood Detection and Notification

OVERVIEW

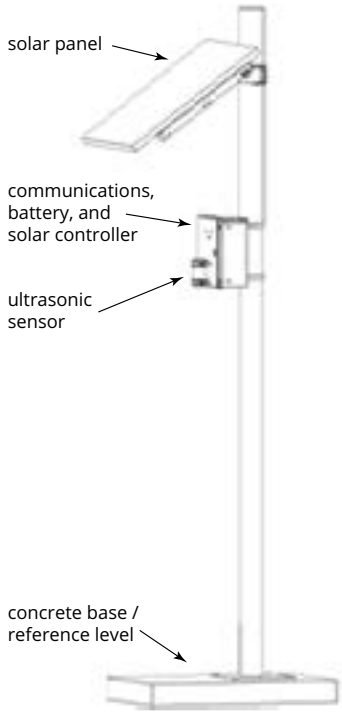
Part of the ATS suite of weather awareness solutions, the FloodAlert Detection and Notification System helps prevent flood-related traffic incidents caused by flooded roadways. The system allows municipalities, departments of transportation and public works and other organizations to take proactive precautions and share important information and alerts.

HOW IT WORKS

FloodAlert uses an ultrasonic sensor, existing infrastructure/sensors and/or other external data sets to sense rising water levels in a flood-prone area. The system automatically triggers your preset alerts and notifications when flooding begins to occur, which can:

- **NOTIFY** appropriate staff when water levels at each location approach flood stage
- **PUSH DATA AUTOMATICALLY** to messaging on signage, turn on warning beacons, 511 alert systems, the Waze Connected Citizens Program, websites and social media networks, and/or your existing systems
- **DISPLAY WARNINGS** to drivers and suggest alternate routes using variable message boards located at or before key intersections
- **DIRECT TRAFFIC FLOW** appropriately and safely, without inconveniencing drivers, to minimize congestion caused by flooded roadways

The FloodAlert system is managed in ATS TraffiCloud and hosted on Microsoft Azure for reliability and high-availability.



Each FloodAlert unit is installed at locations identified to be flood-prone. Each unit supports an ultrasonic sensor, processor, cellular modem and battery or AC supply.

Once installed, the system is configured with a flood level threshold and a clear level threshold. The ultrasonic sensor continuously monitors the surface below the sensor. If the level rises above the flood level threshold, the system signals the TraffiCloud platform to send a Flood alert with the current water level. TraffiCloud continues sending Flood Status alerts with updated water levels—every 15 minutes while the water stays above the flood level threshold.

Once the water drops below the threshold level, the Flood Status alerts stop and an All Clear alert is sent. All three alert types can be configured individually in TraffiCloud to send as email and/or text alerts to individual users in the same TraffiCloud account.

ATS systems can be solar powered for round the clock protection with little to no infrastructure requirements.

NOTIFICATION

- Alerts are sent via email and/or text address to as many recipients as required
- System is password-protected, with three levels of access
- Fully hosted, turnkey web-based remote management
  - Internet-connected computer and browser provides anywhere access
  - No IT infrastructure or support necessary
  - No additional hardware or network appliances necessary
  - No software or middleware to install for remote management
  - Wireless cellular connection provided by ATS with no separate charges
  - Web-based user interface is always up to date and continually receives applicable enhancements
- System can be accessed via API to inform other systems in real-time

For more information on the FloodAlert Detection and Notification System or any other ATS product or solution call 866.366.6602 or email sales@alltrafficsolutions.com.

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