

Vaisala IntelliZone Automated Control Software ITS100



Overview

Vaisala IntelliZone Automated Control Software ITS100 is an advanced ITS software platform that allows you to manage and deliver real-time messages to motorists, well in advance of weather-related concerns or traffic congestion. Providing motorists with accurate, timely information they can trust is challenging, but the IntelliZone delivers with customized systems to meet your needs.

With each application, Vaisala IntelliZone software gathers sensor information and automatically updates dynamic message signs and Highway Advisory Radio (HAR) messages to reflect conditions ahead. Each system is designed to make roadways safer by diverting traffic, reducing sudden braking, and motivating drivers to reduce their speed.

Benefits

- Uses proven traffic and road weather sensing equipment
- Automatically alerts traffic through message signs and/or Highway Advisory Radio
- Automation reduces the amount of false warnings (builds traveler confidence)
- Eliminates traffic congestion and accidents in problem areas
- System helps your agency become visibly proactive

Features

- Modular, scalable, flexible architecture can be easily modified to meet your project requirements
- Can be used with an existing RWIS network
- Variety of communication methods available to collect data
- Static or variable message signs to display warnings to motorists
- Software capable of setting thresholds, monitoring and archiving data
- NTCIP compliant

Specialized Systems

Vaisala IntelliZone Automated Control Software ITS100 AdvanceWarn System

The Vaisala IntelliZone Automated Control Software ITS100 AdvanceWarn System incorporates traffic monitoring sensors, Road Weather Information Systems (RWIS) that sense weather and pavement conditions, Highway Advisory Radios (HARs) and portable message signs. The result is a completely integrated advanced warning system that monitors current conditions and informs motorists of hazardous weather and traffic problems.

The RWIS collects data from the traffic sensors, pavement sensors and atmospheric weather sensors. Vaisala IntelliZone software analyzes the data and, when conditions warrant, sends a message to HARs and portable message signs along the roadway. The HARs and portable message signs automatically update, in real time, to provide hazardous weather and traffic conditions to motorists.

IntelliZone Dynamic Detour Alert System

The Dynamic Detour Alert System is designed to inform motorists when they should use an alternate route, providing information about expected delays and travel times. This system utilizes traffic sensors, dynamic message signs, HAR and flashing beacons.

The system retrieves data from traffic sensors, calculates the travel time delay, and updates the dynamic message signs, HAR and flashing beacons to reflect the current conditions. If the travel delay exceeds a user-defined limit, motorists traveling in either direction are informed of the delay and detour information is provided.

Applications

- Low visibility warnings
- Icy road detection and alert systems
- Snow chain advisory
- Hydroplane detection and alert systems
- Flood water level detection and alert systems
- High wind warnings
- Air quality systems
- Over height vehicle detection
- Detour alert systems
- Chemical or biological detection and alert systems
- Traffic Management Centers (TMCs)
- Parking lot management
- Smart work zones

Vaisala IntelliZone Hydroplane Detection/Alert System

The Vaisala IntelliZone Software Hydroplane Detection/Alert System detects hydroplaning conditions and informs motorists of the dangerous conditions that can result in potential loss of control of their vehicles. The system consists of a Remote Processing Unit (RPU), pavement condition sensors located in target lanes of the roadway, and static or portable message signs.

The RPU collects and logs the data from the pavement sensors. The software analyzes the data and, when conditions warrant, sends a message to static or portable message signs along the roadway. The message signs automatically update, in real time, to provide potential hydroplaning conditions to motorists.



For more information, visit www.vaisala.com or contact us at sales@vaisala.com

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