

The High Sierra Difference

TURN-KEY WEATHER MONITORING SOLUTIONS



HIGH SIERRA ELECTRONICS, INC
environmental monitoring solutions

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environmental monitoring solutions

RWIS
MEASURING THE WEATHER
TO PROTECT THE PUBLIC
AND IMPROVE TRAFFIC SAFETY

Flooded Roadways

High Wind

RWIS

Visibility and Fog

highsierraelectronics.com

At High Sierra Electronics, Inc. our focus is on customer satisfaction. We believe that our success is determined by what we help our customers achieve.

We have a longstanding reputation for our business integrity, engineering expertise, product reliability, and professional service. Our customers know they can rely on our commitment to provide solutions that support them in their mission.

Since 1992, we have been designing and manufacturing environmental monitoring systems for the protection of lives and property. Our systems help identify threats posed by the weather, which include flooding, dangerous road conditions, and vulnerable dams and levees. We provide turn-key solutions – from sensors in the field to central software that collects data for decision makers and disseminates alarms.



Road Weather Alert System **RWAS**

Flexible
Reliable
Cost Effective
Non-intrusive



HIGH SIERRA ELECTRONICS, INC
environmental monitoring solutions

ISO 9001:2008 Certified

155 Spring Hill Dr., Suite 106
Grass Valley, CA 95945
PH: 800-275-2080
FAX: 530-273-2089
www.highsierraelectronics.com



Automated Road Warning Systems

RWIS SOLUTIONS DESIGNED TO MEET YOUR NEEDS

Winter related traffic accidents have a large societal and economic impact each year. On average, there are over 5,870,000 vehicle crashes each year. Twenty-three percent (23%) of these crashes—nearly 1,312,000—are weather-related. Of these weather-related accidents, 6,250 people are killed and over 480,000 people are injured each year.

Weather instrumentation is just one tool that can be used to change driver behavior and potentially **reduce accidents and save lives**. High Sierra Electronics employs its road weather sensor technologies to activate ITS systems along the roadway to alert drivers of potential hazards.

flexible designs to meet your budget

The 5433 IceSight sensor is used to **activate ITS devices** when the road or bridge surface has adverse conditions. Alternatively, the Surface Sentinel sensor can be used to activate an ITS device whenever the temperature of the road or bridge surface falls below freezing or a user set threshold. The sign remains active as long as the sensors thresholds have been met. This gives the driver additional information about the road to make the decision to slow down.



5439 SURFACE SENTINEL

Non-intrusive Surface Temperature Sensor

- Surface Temperature, Air Temperature, Relative Humidity, Dew Point
- SDI-12 Communications
- Contact Output (low/high threshold, frost warning)
- Low Power Consumption
- Fan Aspirated Air Temp and RH
- Mobile Version Coming Fall 2014



5433 ICESIGHT

Non-intrusive Road Condition Sensor

- Surface Condition (dry, damp, wet, snow, ice), Surface Friction, Surface Temperature, Air Temperature, Relative Humidity, calculate Dew Point
- Ethernet, RS-232 and RS-485 Communications
- Contact Output (freezing temp and non dry condition)
- Suitable for Solar Power Applications
- Mobile Version Available

System Packages

ROAD WEATHER ALERT SYSTEM (RWAS)

The Road Weather Alert System (RWAS) is intended to warn drivers of potential road hazards ahead. It utilizes HSE's non-intrusive road sensor technology with flashing LED or LED message signs to give the driver a dynamic message about the road.

When the sensor detects adverse road conditions a signal is sent to activate the dynamic sign. The sensor can be located at the sign or a wireless option allows the sensor to be located down the road. Software options are also available to retrieve data from the sensors.



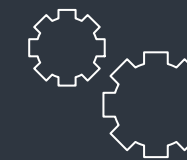
RWAS COMPONENTS

- Road Surface Sensor: Surface Sentinel or IceSight depending on your application and budget.
- Road Alert Sign
 - Embedded Flashing LED Sign (standard configuration)
 - Sign with LED Flashing Beacons
 - LED Message Sign
- Solar Powered

WIRELESS RWAS

The Wireless RWAS option allows the sensor station to be located separate from the sign station. This is ideal for bridge warning, curve warning and hill warning locations where you want to alert the driver ahead of the trouble area.

A radio is used to communicate the information from the road sensor location to the sign station.



CUSTOM SOLUTIONS

High Sierra Electronics provides design services to customize weather systems to meet your needs. Our products are flexible in design and open protocol to integrate into existing and new weather systems. Contact us today to talk to one of our design technicians.



SOFTWARE SOLUTIONS

Software solutions can be provided to display data from any of our monitoring systems. Data is brought back over any form of communications from dial up modem to cellular modem and fiber networks. Reduce maintenance costs by knowing the status of your sites at all times.



WEATHER SOLUTIONS

Accurate and reliable weather data is critical when managing road networks. HSE is committed to providing the highest quality HydroMet and Road Weather Information Systems (RWIS) available.