

# Road Weather Warning Systems



## Reduce risks, improve public safety, and save costs

Winter road conditions have a major impact to the traveling public and commerce each year. **StormLink® Road Weather Information Systems (RWIS)** provide real-time information about the weather and roadway conditions. Continuously updated data helps operations and maintenance personnel stay informed about what is happening on the roadway so they can make timely decisions and take proactive measures to reduce the risks and impacts of winter road weather conditions.



5,000

road deaths on average every year due to weather-related conditions



418,000

people are injured annually due to weather-related crashes



\$2.2-3.5B

dollars in trucking transportation costs due to weather-related delays



### ASK ABOUT: STORMLINK® RWIS LITE ICY ROAD

AEM offers a variety of road weather solutions—both fixed and mobile, in addition to icy road, flooded roadway and fog warning systems. From small-scale local installations to large scale national routes—we have the right Road Weather Warning solution for your application. Contact us to learn more.

Whether you need to initiate alerts, manage snow plow operations, mobilize emergency personnel, or activate road weather system-related closures, AEM provides a professional solution to quickly and reliably transform data into actionable information.



#### SCIENTIFIC GRADE WEATHER SENSOR MEASUREMENTS

Our road weather systems use scientific grade instruments so you can be assured of their accuracy in all conditions.



#### REDUCE ACCIDENTS WITH VISUAL FEEDBACK

Inform motorists with automated flashing warning beacons, activate roadside message signs or send text or e-mail alerts when there are weather hazards.



#### SAVE COSTS AND MAXIMIZE INVESTMENT

Reduce winter maintenance operational costs by monitoring weather information to proactively manage your assets and material usage.

Statistics from the Federal Highway Administration of the U.S. Department of Transportation.

# Road Weather Information Systems (RWIS) — solutions for state and local transportation agencies and federal highways

## STORMLINK® RWIS LITE

Ideal for local installations at low-volume rural and urban arterial roadways, transit routes, bridges, airport parking and pedestrian terminals. Systems are simple to install with minimal effort; a low maintenance option for public safety awareness.

## STORMLINK® RWIS PRO

Suitable for high-capacity, high-volume, principal roadways, interstate highways, motorways, overpasses, bridges, ... Integrated ITS deployments, NTCIP protocol, integrates into existing systems.

FEATURES	KEY BENEFITS	STORMLINK RWIS LITE	STORMLINK RWIS PRO
Warn drivers of potentially icy roads	Reduce accidents by warning drivers with automated flashing beacons to slow down when weather hazards exist.	✓	✓
Integrated cellular communication sends system data and status to software	Increase situational awareness to better manage the roadway and reduce maintenance costs.	✓	✓
No outside communication needed to activate system	Improve driver safety by letting the traveling public know of weather hazards when they happen.	✓	✓
Solar Powered	Get the system up and running quickly with simple installation.	✓	✓
Remote system configuration	Reduce trips to the site by adjusting system thresholds and configurations remotely from software.	✓	✓
Two-way communications	Reduce trips to the site with the ability to override the system beacons remotely from software.		✓
Email and text alerts of system status	Address weather issues quickly and increase public safety with notifications of system status directly to any device.		✓
Ethernet and serial output	Flexible communication options with third-party equipment and existing infrastructure.		✓
NTCIP open communications protocol	Easily expand the system with any compatible systems and software suites.		✓
Complete RWIS sensor suite	Increase situational awareness by collecting data from a full suite of road weather sensors for additional alarming capabilities and weather information.		✓
Local data logging	Past system data can be downloaded locally if communication failed.		✓
COMPATIBLE WARNING TYPES			
Icy road potential	Icy Road potential is calculated by measuring surface temperature, air temperature and relative humidity measurements with the Model 5439 Surface Sentinel.	✓	✓
Winter road condition or friction measurement	Winter road condition or low friction from a direct measurement with laser technology with the Model 5433 IceSight.		✓
Low visibility or fog	Low visibility measured with the Model 5434 Visibility sensor or the Model 5432 Present Weather sensor.		✓
High Wind Warning	High wind speed measured with the Model 5712 Mechanical and Model 5714 Ultrasonic Anemometers.		✓