Boschung’s latest generation of Road Weather Information Systems (RWIS) represents the most comprehensive range of products used to monitor road status and surface weather conditions. The application of RWIS enhances traffic management and maintenance decision-making under the toughest circumstances. The unique measurement principles and technologies used in the sensors, electronics and software result in the most reliable and accurate early detection of dangerous road surfaces. Boschung’s RWIS will provide you with the comprehensive real-time weather data you need to make intelligent decisions about the safety of your roads and bridges.

THE SYSTEM CONSISTS OF...

1. pavement and atmospheric sensors
2. a remote processing unit
3. weather asset data display and management software

SENSORS. The Pathway to Vital Information.

Each of Boschung’s sensors provide their own valuable set of surface weather information that is used to formulate a precise surface condition assessment. The data helps road authorities predict if any surface treatment is needed to keep travelers safe.

Passive and Active Pavement Sensors

Boschung’s RWIS allows for the use of passive or a combination of passive and active pavement sensor options. Utilizing active pavement sensor technology in your RWIS provides the most accurate freeze point information regardless of the type of anti-icing chemical being used. Active pavement sensors do not require calibration when switching chemical types, which is a major benefit over passive only systems.

IT-Sens (passive pavement sensor)
- pavement status (dry, moist, wet, slippery)
- pavement surface temperature
- water film thickness
- sub-surface temperature at two independent depths
- calculated freeze point temperature*
- coupled with IT-Arctis for the most advanced freeze point monitoring

*limited by conductivity properties of measured solution

IT-Arctis (active pavement sensor)
- active freeze point monitoring
- most accurate measured freeze point temperature
- totally independent of thawing agent used
- information to accurately time anti-icing chemical delivery
- real-time feedback of the treatment performance

All Boschung pavement sensors feature a Sensor Enclosure
- allows for rapid sensor replacement
- designed to withstand the heaviest traffic volumes
- IP-68 rated, water tight housing

Common atmospheric sensors integrated into a typical Boschung RWIS station include...
- air temperature and humidity
- wind
- precipitation
- atmospheric pressure

Boschung’s RWIS provides the flexibility to choose and configure many meteorological sensor options to design a system that best suits your needs.
Innovative Remote Processing Unit

Boschung’s RCM500NT is a pre-engineered, prefabricated remote processing unit for RWIS applications that is NTCIP compliant. This makes it easy to integrate into existing systems and ensures future interoperability.

The RCM500NT features . . .

• an open concept with multiple vendor integration capabilities
• remote configuration and serviceability
• full remote reset and power cycle
• internal watchdog circuitry
• Linux based CPU
• selectable serial and Ethernet communications
• handles multiple protocols including ASCII and NMEA
• programmable contact closures to control other devices such as signs

The RCM500NT is designed to reduce maintenance costs and unnecessary site visits by incorporating an innovative remote service interface. This product is the heart of Boschung’s Road Weather Information System.

BORRMA-web Comprehensive Real-Time Analysis

The sensors measure the surface condition of the pavement and the meteorological conditions. The RCM500NT processes the data, which is then downloaded, stored and visualized by Boschung’s cloud based BORRMA-web software.

This pertinent information is . . .

• quickly and automatically ready for analysis on BORRMA-web
• accessible on any on-line computer
• available on smart phones and tablets equipped with RWIS App

The BORRMA-web intuitive, user-friendly displays, based on a geographical map, allow the user to get a full overview of the status of the pavement and the surface level conditions in near real time.

Boschung’s unique built-in alarms, as well as user configurable alarms, provide all necessary advanced warnings needed to make important decisions at the right time that have an impact on road maintenance and traveler safety.
WEATHER SYSTEMS FOR SAFER ROADS AND BRIDGES

Other Boschung road systems and services include…

• Fixed Automated Anti-Icing Systems (FAST)
• Automatic Vehicle Location (AVL) Systems
• Maintenance Decision Support Systems with Pavement Forecasting
• Open Protocol Pavement Sensors

To find out more about how Boschung’s RWIS can…
• make your roadways and bridges safer
• enhance your decision making
• lower your maintenance costs, contact…

Corporate Office
702 - 43rd Street East
Saskatoon, Saskatchewan
Canada S7K 3T9
Tel: +1(306) 653-6600
Fax: +1(306) 242-5599
Toll Free: 1-877-444-4IRD (4473)
Email: info@irdinc.com | Website: www.irdinc.com

U.S. Office
2402 Spring Ridge Drive, Suite E
Spring Grove, IL
USA 60081
Tel: +1(815) 675-1430
Fax: +1(815) 675-1530
Tel: +1(815) 675-1430
Fax: +1(815) 675-1530
Toll Free: 1-877-444-4IRD (4473)
Email: info@irdinc.com | Website: www.irdinc.com