

# Road Weather Station RWS200

## Product Spotlight

### Accurate, reliable observations for road networks

The Vaisala Road Weather Station RWS200 gives road operators a comprehensive, actionable understanding of local weather conditions so they can make better decisions, increase safety, and keep transportation networks operating smoothly.

RWS200 is IEC-compliant and tested in the harshest environments. Easy to use and configure, it offers intelligent system integration and interoperability. Even its enclosure is designed from years of experience in the field and careful materials analysis.



## Key benefits

RWS200 provides substantial advantages in cost, efficiency, and compatibility when deployed as a single, cohesive unit.

RWS200 offers unique remote service features, sophisticated analysis algorithms for road state, and smart power logic in the event of main power failures.

The support of multiple data formats ensures easy integration with other systems as needed.

RWS200 features built-in remote data access that allows for remote software updating, and it stores historical weather data for later retrieval and analysis.

Ethernet and 3G/4G cellular connections ensure that users receive an uninterrupted flow of information.

## Why Vaisala?

Vaisala's weather and environmental technologies take every measure for unrivaled road network awareness – keeping roadways safe and efficient in any season.

Our instruments and intelligence are built on 85+ years of innovation and are known as the gold standard for precision and reliability. We understand how accurate data and insights do even more by driving sustainable road operations and climate action. Our holistic approach provides customers with end-to-end simplicity, valuable partnership, and a comprehensive portfolio that is constantly evolving.

As recognized experts in transportation, we continue to channel our curiosity into new ways of making roadways safer and more efficient than ever.

RWS200 enables several data collection and integration possibilities, with multiple protocols and message format options available to system integrators. It can integrate with other Vaisala technologies, like the Road Weather Information System (RWIS), or it can be flexibly incorporated into other RWIS systems.

## Applications

- Continuous reference-grade weather observations to make life- and cost-saving decisions for winter maintenance
- Traffic control applications or control of VSM signs for road networks and bridges for optimized safety
- Airport runway condition observations can be used to make timely runway safety critical treatment decisions

## Integrated Features

Comprehensive data outputs – System users receive a wide range of critical weather data:

- Humidity, temperature, and dew point
- Road surface and air temperatures
- Friction and ice/water layer measurement
- Road surface state assessment
- Visibility and present weather
- Rain accumulation and precipitation
- Wind speed and direction
- Air quality
- Water and snow depth
- Solar radiation

## Part of an integrated approach to modern winter maintenance

Vaisala Wx Horizon, part of our Xweather family of subscription based products, integrates road weather data from all your road weather stations, IoT sensors and mobile sensors – giving you actionable insights into current and future conditions across the network. The fusion of real-time sensor data with our industry-leading road weather modeling and unmatched forecasting accuracy improves winter maintenance decisions.

