VAISALA

Road Weather Station RWS200 Accurate, reliable observations for roads and runways



The Vaisala RWS200 gives road and runway operators a comprehensive, actionable understanding of local weather conditions so they can make better decisions, increase safety, and keep transportation networks and mission-critical runways operating smoothly.

The 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.

The 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.

Key Benefits

Exceptional data quality in all weather

The RWS200 is comprised of high-quality, precision components and sensors from Vaisala that have been tested and validated in thousands of real-world deployments in the harshest conditions. The system's uptime and data availability lead the industry.

Immediate data-driven decisions

Transportation and runway managers routinely face pressure and high-stakes decisions, and the RWS200 gives them the data and confidence they need to act decisively when it counts.

Substantial operational savings

The RWS200 allows transportation managers to optimize road maintenance procedures and execute more targeted, efficient snow/ice abatement interventions.

Flexibility and ease of installation

The system is reliable, expandable, and upgradable — providing exceptional value over a long service life, even when observation requirements change. The RWS200 can be used as a fully equipped system, or to fill gaps in an existing observation system.

RWS200 at a glance

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

Key features

The best weather data in one integrated system

The RWS200 is built on Vaisala's most known and trusted technologies, from its individual sensors to its data management. When deployed as a single, cohesive system, it provides substantial advantages in cost, efficiency, and compatibility.

Intelligent system components

The 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 (including NTCIP, Datex II, and XML) ensures easy integration with other systems as needed.

Excellent connectivity and remote data access

The 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.

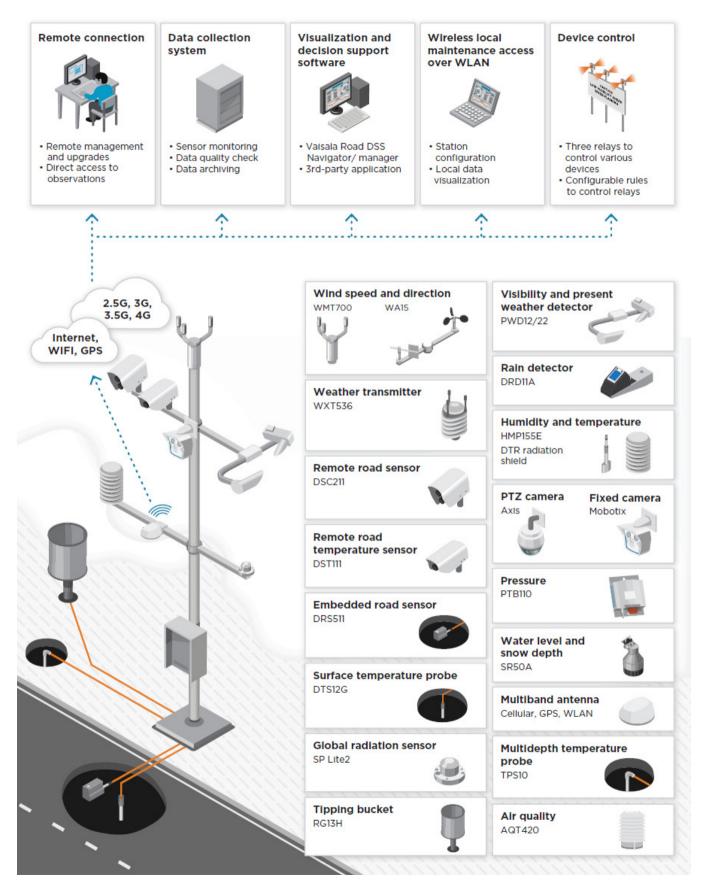
Comprehensive data outputs

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



System components





Why Vaisala?

Vaisala's weather and environmental technologies enable unrivaled road network awareness — keeping roadways safe and efficient in any season.

As the gold standard for precision and reliability, Vaisala's holistic approach provides customers with end-to-end simplicity, valuable partnership, and a comprehensive portfolio of solutions that are constantly evolving. Our 85+ years of innovation are reflected in our guiding principles for roads:

1. Move ahead

- Only Vaisala provides data of unrivaled depth and breadth while synthesizing it into objective decision support so everyone can keep moving toward better, more insightful ways of operating.
- 2. Mobility and beyond We deliver the right insights to the right people at the right time, enabling a wide range of stakeholders to act with confidence and achieve a comprehensive understanding of their road networks and the vehicles on them — creating better, safer outcomes for all.
- 3. The innovators

As a recognized industry expert, we continuously apply our knowledge and experience to create next-generation solutions that advance the industry; enabling stakeholders to innovate and optimize road networks like never before.

4. See, understand, decide Vaisala gives users rich data intelligence that improves real-time decision-making as well as observation enhanced forecasting to enable strategic planning. With a better, fuller understanding of their road network, users can do their jobs more decisively and effectively than ever.

VAISALA



Ref. B212061EN-B ©Vaisala 2022 This material is subject to copyright protection, with all copyrights retained by Vaisala and its individual partners. All rights reserved. Any logos and/or product names are trademarks of Vaisala or its individual partners. The reproduction, transfer, distribution or storage of information contained in this brochure in any form without the prior written consent of Vaisala is strictly prohibited. All specifications — technical included — are subject to change without notice.

vaisala.com/rws200

Scan the code for more information