

Observation Network Manager NM10

Remotely monitor, manage, and control your road weather stations



When the weather changes, road weather stations help you understand how streets are being affected and get ready to respond. Reliable and accurate measurements are essential for timely, successful road maintenance. But if one of the stations isn't working properly, how can you find the problem quickly and get it back online with minimum downtime?

The right tools help you monitor network performance, diagnose and solve problems in real time, and manage the network remotely and cost efficiently.

Vaisala Observation Network Manager NM10 provides the information and visibility you need to remotely manage your road weather station networks—all on a central, secure and automated platform. The solution provides easy access to all of the essentials: station status, events, alerts, measurements, metadata and maintenance information. This helps you identify and solve problems quickly, ensuring continuous high-quality measurements for improved operations with minimum cost of service.

From implementation to long-term maintenance, a network management solution optimized for your needs improves operational efficiency and lowers the lifetime cost of managing and maintaining the station network.

Key benefits

Manage your network efficiently and securely

See the status of your entire road weather station network in real time with a secure, browser-based interface.

Save time and costs

Use remote capabilities for software or firmware updates and to control the stations.

Solve problems faster

Get real-time monitoring with alerts, notifications and remote diagnostics.

Gain efficient deployment with extensive support

Reduce implementation time using a commercial off-the-shelf application, flexible integration, and long-term support.

Vaisala NM10 is a standalone solution that offers reduced implementation time, advanced data security, and flexible customization capabilities provided by the world's leading observation system and sensor manufacturer.

Seamlessly integrated with road weather stations, sensors and parent monitoring and management systems, the solution provides in-depth measurement site status with observation quality plus proven tools to manage and maintain observation networks with full remote capability.

Key features

- Data acquisition, processing, storage and notifications services
- Remote monitoring, station management and control
- Browser based user interface with geographic information system (GIS) map service and system administration
- Data export options to other management and monitoring systems

Why Vaisala?

Expertise and innovation

We have built our expertise on more than 80 years of highly accurate observations. For decades, road maintenance agencies all over the world have trusted Vaisala to deliver a full service offering for measuring and monitoring the weather. This can include site selection, designing and building, sensor maintenance, analytical processing of observations, and displaying intuitive, actionable information. Each year we re-invest more than 10% of our revenue to drive innovation to ensure sustainable actions can be delivered on transportation networks around the world.

Support you can count on

With our deep understanding of the challenges faced by winter maintenance decision makers, you can count on Vaisala for dependable support, training, and project management based on best practices. With decades of experience providing the best technologies and expert know-how, Vaisala's philosophy of partnership is unmatched in the industry.

The screenshot displays the Vaisala NM10 web interface. On the left, a table lists system messages with columns for Severity, Type, Time, Source, and Message. The messages include 'Sensor operation OK (150000)', 'Sensor data invalid (151000)', 'Alert off: 'No observation'', and 'Alert on: 'Web service no...'. The main area features a GIS map of Finland with various weather stations marked by green 'Y' icons. A 'Software Update' window is open, showing a table of sites with columns for Site, Update completed, Current software version, Software update status, and Actions. The table lists sites 227, 323, 399, 646, 649, 814, and 826. Site 244 is highlighted, showing a 'Software update status' of 'Update completed' and details for the software file 'RWS200_release_4.1.2_2020-08-21_full-swupdate_image', requested by John Smith on 2020-09-14 10:41 +0200.

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