

Vaisala Mobile Detector MD30

VAISALA

Product Spotlight

**See real-time road conditions anywhere
on your network**

The Vaisala Mobile Detector MD30 is the first device designed specifically for snow plows to accurately collect and transmit data on road surface state, grip, and surface temperature along the route.



Key benefits

Equipped with a compact, multiparameter sensor for increased accuracy.

The MD30 features all key measurements, such as surface state, grip, and surface temperature.

While designed for snowplows, the MD30 is suitable for any vehicle.

Based on Vaisala's market-leading DSC technology for enhanced features and accuracy.

The MD30 can be combined with video and photo data and visualized online.

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.

The MD30 helps fill road condition gaps in between stationary weather stations so you can see conditions across the entire network. Enhanced decision-making drives optimal material usage and resource deployments, resulting in cost savings and decreased environmental impact.

The MD30 attaches to the front of a snow plow or other vehicle; automated data collection from the start allows for ease of use while drivers concentrate on the road. This real-time data helps both drivers and supervisors make quick decisions to improve road conditions and avoid time-consuming rework.

Real-time answers to challenging questions

For winter road maintenance supervisors

- What's happening between my weather stations?
- Does the current pavement forecast reflect the state of my roads?
- Are we using the right material types and amounts for each road segment?
- Are the trucks where they should be, clearing the most impacted and important routes first?
- Are any operational adjustments necessary due to quickly changing conditions?

For plow operators

- Is there black ice or moisture on this road? How thick is the layer and does it make the road slippery?
- Is the pavement temperature falling and do I need to treat the road to prevent a potential icy situation?
- Should I be applying more or less material?
- What's left on the road after my blade has passed?

