Vaisala Mobile Detector MD30

Monitor and transmit real-time road surface state data from any vehicle — even the demanding environment of snow plows.

The patent-pending 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 its route. Enhanced decision-making drives optimized chemical usage and vehicle deployments, resulting in decreased environmental impact and cost savings.

Keeping Roads Safe and Clear is an Ongoing Challenge

Winter road maintenance supervisors need as much real-time information as possible to keep the roads safe and clear:

- Are the roads still slippery between fixed weather stations?
- Are we using too much, too little or the proper amount of chemical?
- Are the trucks where they should be, clearing the most impacted and important routes first?
- Based on data, where is the best place to send the trucks out next?

Plow Drivers Also Face Challenges and Questions

- Is there black ice in this road?
- Is that glare water or ice?
- Is the road a little moist or just darker?
- Is the road colder than ambient air, setting up a potentially icy situation?
- What is the best way to treat this road?

Real-Time Data. Real World Results.

Vaisala MD30 eliminates guesswork on changing weather conditions by transforming snow plows into weather stations and providing real-time data to supervisors and drivers alike. More than 20 customer pilots determined the MD30 proved to be a robust and powerful tool in their winter weather arsenal.

Built Tough:
Designed for snow plows and molded to withstand heavy vibration and prevent water ingress. The patent-pending hood protects the lens from snow and road spray and easily removes for cleaning.

Surface Temperature is Only Part of the Story:
MD30 transmits real-time data on grip and road state, layer thicknesses of water/ice/snow, road and air temperature, relative humidity, frost and dew point.

Simple and Affordable:
Compact size enables easy installation with many options, and the affordability enables wide-scale fleet deployments.

Real-time Road Conditions from Anywhere on Your Network

Solid Technology Foundation:
Features the third generation of Vaisala's market-leading DSC laser technology and benefits from Vaisala's experience in industry-leading weather measurement.

Data Visualization:
Leverage live data and imagery to support treatment actions.

Complementary Data:
Supervisors are concerned about their entire road network, but without mobile sensors, it's difficult to know how roads are impacted between weather stations. MD30 works well as a standalone sensor or to help fill in data between stationary weather stations.

Easy to Install. Easy to Operate.

Data integration through the MD30 is automated with the start of the vehicle, allowing for ease of collection and the ability for drivers to concentrate on the road. The MD30 empowers decision-makers with the information they need to take swift action and help ensure road safety while effectively managing vehicle dispatch and optimizing chemical use.

Vaisala's weather and environment instruments are trusted by the Federal Aviation Administration and the National Weather Service. The MD30 is the next level in road maintenance for municipalities looking to save on road treatments, position staff efficiently, maximize technology in a cost-effective way and deliver safe roads for your community.

For more information on the revolutionary Vaisala Mobile Detector MD30, please visit
www.vaisala.com/MD30

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