

VAISALA

Trouble spots no more:

5 road weather measurement challenges solved

Many winter maintenance organizations rely on road weather information to help keep their winter roads safe. However, there are certain types of areas that may be challenging for road weather measurements. Here is a look at some of those locations and how new technology makes it easier and more affordable to get the information you need.

Tough-to-monitor locations



Bridges and elevated sections

Short distances
Unexpected conditions
Heat loss above and below the surface
Can become icy especially early in the winter season



Parking lots

Microclimate by design Low traffic and speeds Scattered shading Hyperlocal surface weather data is difficult to obtain



Cities

Heavy traffic Low speeds Large condition variations even as critical spots are well-maintained



Non-urban roads

Low traffic High speeds Long distances Topography and shading create hazardous spots



Cycleways and sidewalks

Increasing in use
Diligent winter maintenance required
Different thermal properties than roads

Easy insights with modern technology

Vaisala Wx Horizon

Wx Horizon, part of our Xweather family of subscription based products, is a weather hazard impact portal that delivers insights to current and future road conditions. The fusion of accurate measurements with industry-leading weather forecasting and best-inclass road weather model delivers actionable information for specific use in transportation.



Vaisala Cast Sensors

Intelligent, wireless Cast Sensors provide an easy, cost-effective way to enhance your road weather network and can go where other sensors cannot. They are small, have a built-in battery, and install quickly and easily just about anywhere with built-in NB-IoT connectivity.



GroundCast

- Road temperature from multiple depths
- Treatment material amount
- Surface state: dry / not dry



TempCast

- Air temperature
- Humidity (dew point)
- Surface temperature

Learn more about the industry's most dependable road weather technology.





Scan the code for more information

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