

# Vaisala GroundCast

**VAISALA**

## Product Spotlight

**Provides key road weather measurements from any location, easily and affordably**

Winter road maintenance professionals need to monitor road conditions and predict surface freezing risk across the road network to make proactive treatment decisions. These decisions should be data-driven and based on local weather observations.



## Key benefits

GroundCast is specifically designed to improve pavement forecasts, measuring road temperature from 0cm, -6cm and -30cm in the ground.

Measure the residual treatment amount to facilitate targeted treatments and to validate the effectiveness, avoiding unnecessary use of materials.

No infrastructure or cables needed thanks to a built-in battery and wireless NB-IoT communications.

GroundCast combines two industry-leading modeling systems and provides point forecasts enhanced with local observations.

## 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.

Whether you are just getting started or looking to cover some of the blind spots in your current observation network, GroundCast provides the road weather measurements that matter the most.

GroundCast measures road surface temperature and the amount of residual treatment material, providing you with reference grade observations and location-specific forecasts. This helps you proactively keep roads safe by targeting treatments and validating effectiveness in real time. With no power or other infrastructure required, you can install it virtually anywhere with NB IoT connectivity.

Automatically get access to GroundCast observations through Vaisala Wx Horizon or integrate the Wx Horizon API with your own system.

### Part of an integrated approach to modern winter maintenance

Vaisala Wx Horizon, part of our Xweather family of subscription based products, integrates road weather data from all your road weather stations, IoT sensors and mobile sensors – giving you actionable insights into current and future conditions across the network. The fusion of real-time sensor data with our industry-leading road weather modeling and unmatched forecasting accuracy improves winter maintenance decisions.

