

## Vaisala SSI Passive Pavement Sensor FP2000



### Benefits

- Most accurate way to measure pavement temperature
- Sensors can be placed at key locations
- Cost-effective for maintenance operations by reducing labor operating costs and chemical usage

### Features

- Passive sensor with no maintenance requirements
- Uses two sets of four-point sensing nodes
- Durable electrodes withstand tire compression, chains and temperature fluctuations
- Flush mounting unaffected by traffic and snowplows
- Operates at cable lengths up to 1524 meters (5000 feet)
- Durable construction, reliable and long-lasting

### Overview

Knowing the condition of the pavement results in more proactive and efficient operations. Scheduling winter storm crews, construction projects or pavement resurfacing is easier if you know the current conditions. Vaisala SSI Passive Pavement Sensor FP2000 monitors pavement conditions on roadways and runways, and determines if water or a chemical solution is on the pavement. Agencies around the world are using the FP2000 to monitor remote locations, such as bridges or known problem areas.

The data is used for maintenance operations during critical winter periods and throughout the year.

The FP2000 is durable, reliable and constructed to withstand heavy traffic, tire chains, snowplows and extreme weather conditions. The in-pavement sensor utilizes patented technology consisting of a combination of temperature, capacitance and two sets of four-point sensing nodes to measure pavement conditions. A well on top of the sensor collects moisture and chemical information.

# Technical Data

## Surface Temperature Range

-51 °C to +80 °C

## Depth of Solution

0.03 cm to 1.27 cm

## Operating Temperature Range

-40 °C to +80 °C

## Cable Length

46,91 or 152 meters with Vaisala Type IIA;  
1524 meters with splice

## Mean Time Between Failures

40,000 hours

## Applications

- Remote locations
- Bridge decks
- Problem areas
- Gather data for anti-icing operations and pavement forecasts

**VAISALA**

For more information, visit  
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