

# FP 2000<sup>®</sup>

## PASSIVE PAVEMENT SENSOR

# FP 2000

### 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. SSI's FP 2000 passive surface sensor 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 FP 2000 to monitor remote locations, such as bridges or known problem areas. They use the information for maintenance operations during critical winter periods and throughout the year.

### 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 5000 feet (1524 meters)
- ▶ Durable construction, reliable and long-lasting



## PRODUCT DESCRIPTION

SSI's durable FP 2000 pavement sensor sets the standard for excellence, reliability and long-lasting performance for in-pavement sensors. The sensor uses four-point conductivity to passively measure chemical concentrations of the water/ice/deicing solution on the sensor surface. The unique indented well in the FP 2000 offers enhanced performance to collect sufficient moisture and provides an accurate analysis of the surface solution. Pins on top of the sensor, along with another set of pins in the indented well, provide a system to check and balance the measurement of chemical concentration.

## 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



## SPECIFICATIONS

### RANGE

- Surface Temperature ▶ -60°F to 176°F (-52°C to 80°C)
- Depth of Solution ▶ 0.01" to 0.50" (0.03 cm to 1.27 cm)
- Percent of Ice ▶ 0 to 100%
- Operating Temperature ▶ -40°F to 176°F (-40°C to 80°C)

### PHYSICAL

- Diameter ▶ 5.25" (13.34 cm)
- Height ▶ 1.75" (4.5 cm)
- Weight (without cable) ▶ 2.75 lbs (1.25 kg)
- Cable Length ▶ 150, 300 or 500 feet (45.7, 91.44 or 152.4 m)
- Mean Time Between Failures ▶ 40,000 hours



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