



# FP 2000<sup>®</sup>

Passive Pavement Sensor

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

The FP 2000 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.

## 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

## Applications

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



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**Quixote**  
Transportation Technologies, Inc.

The Source For Intelligent Transportation

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## 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



## Key Specifications

Surface Temperature Range	-51°C to +80°C
Depth of Solution	0.03 centimeters to 1.27 centimeters
Operating Temperature Range	-40°C to +80°C
Cable Length	46, 91 or 152 meters with QTT Type IIA; 1524 meters with splice
Mean Time Between Failures	40,000 hours
CE Compliant	Electromagnetic Compatibility Directive EN-61326-1:2006 Section 6 - Immunity Requirements, Table 2 Section 7 - Emissions Requirements, Class A limit



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