

# Plugsensor

## Condição da Via



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The **Plugsensor Condição da Via** is a sensor that identifies pavement surface conditions using remote sensing technology, enabling precise detection of water, ice, and snow layer thickness, as well as assessing road grip levels. The device outputs a skid resistance index, providing critical data to support road safety decisions and highway operations management.



# Technical Specifications

Parameter	Description
Detection Range	3 to 10 meters
Detection Area Diameter	50 cm (at 6 meters distance)
Installation Angle (Relative to Horizontal)	30 to 90 degrees
Power Supply	DC 9 to 30 V
Power Consumption	1 W
Operating Temperature	-40 °C to +60 °C
Operating Humidity	0 to 100%
Water Layer Thickness	0 to 10 mm
Ice Layer Thickness	0 to 10 mm
Snow Layer Thickness	0 to 10 mm
Skid Resistance Index	Slippery: 0.01
	High Grip: 0.82
Pavement Condition	Dry, wet, snowy, icy, mixed ice and water
Road Meteorological Conditions	Road surface temperature: -40 °C to +85 °C
Pavement Material	Asphalt
Communication Interface	RS485
Dimensions	332 x 145 x 145 mm

Sensor available exclusively for integration with the Plugstation starting from model WS22.

