

RK500-55 is a non-contact road surface state detector, thanks to remote sensing technology it's taken, it can not only avoid damage to the road, but also traffic interference during its installation. Multispectral measurement technology enables accurate detection of thickness of ice, snow, water on surface of the road.

RK500-55 detector is ideal choice for road conditions where installation of embedded pavement sensor is inconvenient or inapplicable. Remote installation, means that there is no need to slot-cut surface or shut down the road, its installation is safe and convenient. It's almost free of maintenance and ideal choice for road meteorological systems. It can be installed on existing weather stations or on other buildings which has unobstructed view to pavement.

The RK500-55 detector is installed in a robust durable housing to ensure its stable working and providing accurate data during bad weather.

By providing accurate road state information, RK500-55 can alarm road management department to take appropriate remedial action. before weather elements has created a hazardous driving surface.

## FEATURES

- Remote monitoring water, ice and snow
- Remote surface state sensing
- Measure amount of water, ice, and level of grip
- No embedded installation
- Anti-corrosion
- Infrared detection, distance up to 15.5 meters
- Easy for installation with shutting down the road
- Robust structure, 7\*24 hours monitoring



## APPLICATIONS

- Environmental monitoring
- Weather station
- Bridge road
- Rain and snow-prone areas
- Accident-prone areas
- Intense traffic area

## TECHNICAL SPECIFICATION

Item	Technical Specification
Measuring distance	2-15m
Measuring radius	25.4 cm
Angle	30-90°
Power Supply	220VAC, 24VDC
Power Consumption	4W
Operating Temperature	-40 °C to +70 °C
Operating Humidity	0 to 100%

<b>Measuring Range</b>	Water:0.00—10mm
	Ice:0.00—10mm
	Snow:0.00—10mm
	Level of Grip:0.00—1
	Road surface temperature:-40°C to +60°C (optional)
<b>Accuracy</b>	0.01mm
<b>Lens Contamination Detection</b>	Automatic lens contamination level detection and compensation
<b>Road Surface</b>	Concrete,asphalt pavement
<b>Communication Interface</b>	RS485,RS232
<b>MTTF</b>	1.5 x 1000000 hours
<b>Safety</b>	Infrared measuring technology, no radiation



Complies with applicable CE directives.  
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