

## **BRS-06 Road Condition Sensor**

The **BRS-06** is used to measure the actual pavement conditions on a roadway.

The sensor measures the following parameters:

- Surface temperature
- Substrate temperature (80mm below the surface)
- Water thickness
- Self-cleaning salt concentration
- Black Ice (monocrystallic ice) sensor



The following data is calculated and transmitted:

- Pavement states: dry, wetted, flood, salty wet, salty flood, black iced, frozen
- Surface temperature
- Substrate temperature
- Freezing point
- Water thickness (if flood)
- Salting level (0-100%)

The sensor compensates the side effects of the traffic to give accurate data even in case of heavy traffic conditions. As an ordering option, it is possible to order the device in flat house for bridges.

The device is secured with 3 M8 screw so the sensor can be easily removed or changed if necessary.

### **Technical Data**

<b>Measuring Range</b>	-40...+100°C / 0...12mm / 0-100% salt
<b>Resolution</b>	0,1 °C / 0,1mm / 0,1% salting level
<b>Accuracy</b>	+/- 0,2°C / 0,1mm / 2% FSR
<b>Data output</b>	Xbee-Pro radio module
<b>Power</b>	3.6V Li-battery
<b>Power</b>	0.12mA avg. / 45mA max.
<b>Mechanical Dimensions</b>	D100 X 140 mm