



# MetSalt

## Active Road Sensor

MetSalt is a unique low-power embedded road sensor for accurate measuring of the road temperature and even more accurate detection of the freezing point. The exact detection is possible thanks to an intelligent active method of cooling and heating the solution on the road surface where the obvious benefit is that this approach is independent on the de-icing agent used for winter maintenance.

Accurate information on the freezing point is essential for the winter maintenance operators because they can judge if the current treatment is sufficient or if further spreading is necessary.

The sensor is mounted in the pavement and performs a continuous cycle of freezing point detection. Using its smart construction, MetSalt provides the road surface temperature measured at the top part of the sensor and is equipped with an external temperature probe which is normally installed in a specific depth, but can be installed near the surface as well.

MetSalt is an effective complement to other non-invasive road sensors like MetRoad or 2DRoad, which measure road surface conditions, friction and also road surface temperature.

## Key features

- Removable electronics
- Active detection of the freezing point
- External temperature probe

## Key benefits

- Accurate detection of the freezing point
- Two-parted housing for easy maintenance
- Low power consumption



## Measuring parameters

Freezing point	-40 to 0 °C
Road surface temperature	-40 to +70 °C
Subsurface temperature	-40 to +70 °C
Freezing point accuracy	±0.5 °C
Temperature sensor accuracy	±0.1 °C
Operating temperature	-40 to +70 °C

## Electrical and mechanical parameters

Power supply	12 V DC
Sensor dimensions	120 x 57 mm
Sensor weight	1.2 kg
Ingress protection	IP 68
Interface	RS 485

