Decentlab

HIGH-PRECISION WINTER ROAD MAINTENANCE SENSOR FOR LoRaWAN®



Accurate information and data for your road management

Applications

- · Frost warning and alerting
- · Remote outdoor monitoring
- Road weather information systems (RWIS)
- · Winter road maintenance

Simple Installation

- · Place & measure
- Battery operation (2 C alkaline batteries)
- Wireless data transmission via LoRaWAN

Measurements

- · Road surface temperature
- Air temperature
- · Relative humidity
- Dew point temperature (calculated)

Easy Monitoring

- Alerting
- Visualisation of data in real time (Mobile / Desktop)

Decentlab

The measuring device DL-CWS from Decentlab reliably measures a range of environmental parameters for road management

Remote outdoor monitoring

In addition to road surface temperature, the DL-CWS also measures air temperature and relative humidity, providing comprehensive environmental data for road monitoring.

Dew point temperature calculation

The sensor calculates the dew point temperature, which is a critical parameter for understanding moisture conditions and potential road icing.

Weatherproof Housing

The robust polycarbonate housing, which is known for its weatherproof, shockproof and UV-resistant properties, ensures the durability of the sensor in harsh outdoor conditions.

Long-term monitoring

Enables continuous real-time monitoring over extended periods of time without the need to change the battery.

Sensor values

Road surface temperature: -40 ... 70°C (-40 ... 160°F) Accuracy: ±0.5°C (-40 ... 60°C)

Air temperature: -40 ... 70°C (-40 ... 160°F) Accuracy: ±0.4°C

Relative humidity: 0...100 % Accuracy: < ±3 % or better



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LoRaWAN

