# External temperature sensor WF50 ext-U4

## 1 Features

- **Supply voltage 24 V AC/DC**
- **Output 0…10 V DC**
- **Temperature range -50…+200 °C (choice of sub-sections)**
- **Ingress protection IP65**

## 2 General description

Outdoor sensor to measure the temperature. The output generates a signal of 0 ... 10 Volt. Thus, this sensor is ideal for use together with the SMS Relay CMS-10ADF. The sensor can be operated with a supply voltage of 24 V AC/DC. The temperature sensor has a total measuring range of -50 ... + 200 ° C in which several partitions in-between could be selected.

## 3 Order designation

Aussentemperaturfühler                    **WF50 ext-U4**

## 4 Connection diagram

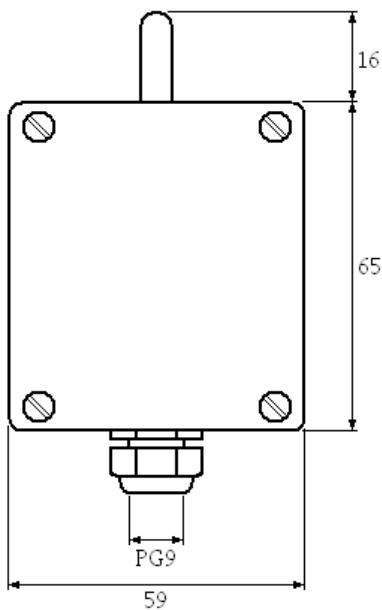| | |
|---|---|
| TEMP | Signal 0…10 V DC |
| Schirm | |
| GND | - V |
| 24V AC/DC | +V |

## 5 Specifications

### 5.1 Electrical data

| | |
|---|---|
| Output: | 0 … 10 V DC |
| Supply voltage: | 24 V AC/DC (±10 %) |
| Measuring range: | -50 … +200 °C, 12 sub-sections selectable (State of delivery: -50...50°C). |

### 5.2 Mechanical data

| | |
|---|---|
| Ingress protection: | IP65 |
| Dimensions: | 59 x 65 x 38 mm |
| Weight: | 99 g |
| Case material: | Polycarbonate |
| Color: | Grey |

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## 6 Dimensions



## 7 Configuration

To set the desired measurement range of the sensor, the lid must be removed and the four DIP switches have to set individually to ON or OFF:

| Measuring range °C | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| 0°C…+50°C | OFF | OFF | OFF | OFF |
| 0°C…+100°C | ON | OFF | OFF | OFF |
| 0°C…+200°C | OFF | ON | OFF | OFF |
| -10°C…+120°C | ON | ON | OFF | OFF |
| **-50°C…+50°C** | **OFF** | **OFF** | **ON** | **OFF** |
| -50°C…+150°C | ON | OFF | ON | OFF |
| -30°C…+70°C | OFF | ON | ON | OFF |
| -20°C…+80°C | ON | ON | ON | OFF |
| -20°C…+70°C | OFF | OFF | OFF | ON |
| 0°C…+120°C | ON | OFF | OFF | ON |
| 0°C…+150°C | OFF | ON | OFF | ON |
| -50°C…+70°C | ON | ON | OFF | ON |

## 8 Revision history

| Version | Revision date | Responsible | Modifications |
|---|---|---|---|
| 65005-009-57-003 | 06.02.2015 | Hy | 1. version English |
| 65005-009-57-004 | 31.03.2017 | Mi | Type designation, Supply |
|  |  |  |  |

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