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

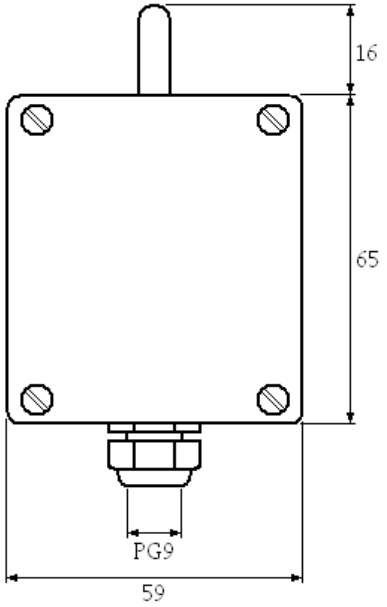
5.1 Electrical data

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

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