

Pipe Contact Temperature Sensor 0 - 10 V

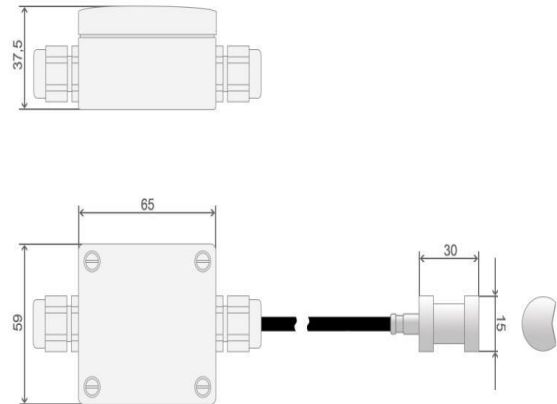
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FEATURES

- Standard signal 0 -10 V calibrated 3 point and linearized
- High long-term stability of the sensor in aluminum protective cap
- High quality housing IP 65
- Integrated sensor and transmitter

RANGE

DIMENSIONS



SPECIFICATIONS

Protected against surges and transients of temperature sensor for continuous use and is well suited to our control . Another important aspect is the high accuracy in the application.

The temperature is measured with a precise and long-term stable platinum resistance with industrial performance. The preparation of the resistance curve is linearized about a second order polynomial according to DIN 47115. The temperature value is the electronic signal processed in a standard signal 0 - 10 V implemented heats..

The sensor is assembled from high quality stainless steel in a cap and is suitable for measuring temperatures as a contact sensor, eg for pipes or due to the remoteness from the sensor and thermally insulated electronics a self-heating is avoided.

POWER SUPPLY

The power is supplied with 24V DC voltage directly from our control or from an external power supply.

<u>Temperature</u>	
Measurement Range	0 ... +100 ° C
Sensor Element	platinum resistor (PT 1000)
Accuracy	+ / - 0.3 ° C (0-50 ° C)
<u>General</u>	
CE	89/336/EEC
EMC Emissions	EN 61000-6-3:2001
Immunity to Electromagnetic Interference	EN 61000-6-2:2001
Sensor Dimensions	See dimensional drawing
Enclosure Electronics	Plastic
Connection	Screw terminals 0.75 mm ²
Connection Cable (-EXT)	2000 mm
Operating Voltage	12 ... 24 V AC / DC
Surge Protection	Varistor and RC filter
Specifications may change at any time	

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CALIBRATION AND ADJUSTMENT

The sensors are calibrated to the national standards of the PTB by means of a precision resistance decade. Due to the high quality platinum sensor elements, the sensors are long-term stable and maintenance free. Recalibration is therefore usually not required.

The Connection

Connection preferably shielded cables should be used. This should be considered especially in EMI noise environment. The shielding must be grounded.

ASSEMBLY OF PROBE

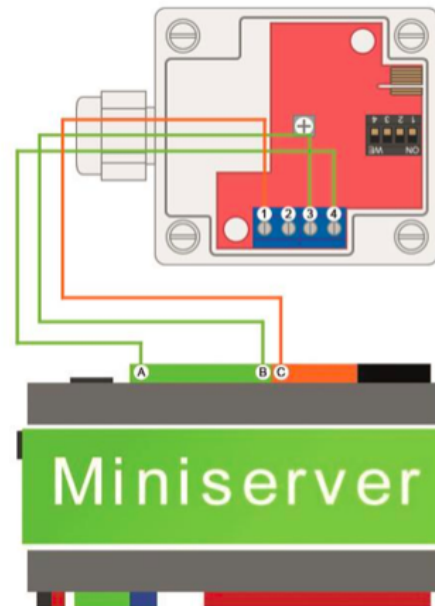
For mounting of external probe commercially available compression fittings or mounting flanges can be used. The sensor is due to the protective cap liquid and pressure tight.

GUARANTEE OR WARRANTY

On our high quality sensor you get a 24 month warranty. Mechanically damaged sensors and tampering with electronic lead to loss of Warranty claims. Calibration services are excluded from the warrantyTEMP.

	Function	Description
1	0 - 10 V	Temperature signal
2	GND 0 V	reference potential
3	10 - 24V DC	operating voltage
A	+ V 24	24V power supply
B	GND	Ground
C	AI	Analog input 0 - 10 V

CONNECTION DIAGRAM



Measurment Range: Adjustable by Dip Switch

	Messbereich	1	2	3	4
1	-50° bis +50°	OFF	OFF	OFF	OFF
2	-50° bis +150°	ON	OFF	OFF	OFF
3	-30° bis +70°	OFF	ON	OFF	OFF
4	-20° bis +50°	ON	ON	OFF	OFF
5	-20° bis +80°	OFF	OFF	ON	OFF
6	-20° bis +120°	ON	OFF	OFF	OFF
7	-20° bis +150°	OFF	ON	ON	OFF
8	-0° bis +50°	ON	ON	ON	OFF
9	-0° bis +70°	OFF	OFF	OFF	ON
10	-0° bis +100°	ON	OFF	OFF	ON
11	-0° bis +150°	OFF	ON	OFF	ON
12	-0° bis +200°	ON	ON	OFF	ON