

## Measurement Range (DIP-Switch)

### Auswahl Messbereich Measurement Range Options



	1	2	3	4	5
-100°C bis +50°C	OFF	OFF	OFF	OFF	OFF
-50°C bis 0°C	ON	OFF	OFF	OFF	OFF
-50°C bis +50°C	OFF	ON	OFF	OFF	OFF
-50°C bis +150°C	ON	ON	OFF	OFF	OFF
-30°C bis +20°C	OFF	OFF	ON	OFF	OFF
-30°C bis +60°C	ON	OFF	ON	OFF	OFF
-30°C bis +70°C	OFF	ON	ON	OFF	OFF
-20°C bis +50°C	ON	ON	ON	OFF	OFF
-20°C bis +80°C	OFF	OFF	OFF	ON	OFF
-20°C bis +120°C	ON	OFF	OFF	ON	OFF
-20°C bis +150°C	OFF	ON	OFF	ON	OFF
-10°C bis +15°C	ON	ON	OFF	ON	OFF

	1	2	3	4	5
-10°C bis +120°C	OFF	OFF	ON	ON	OFF
0°C bis +40°C	ON	OFF	ON	ON	OFF
0°C bis +50°C	OFF	ON	ON	ON	OFF
0°C bis +70°C	ON	ON	ON	ON	OFF
0°C bis +100°C	OFF	OFF	OFF	OFF	ON
0°C bis +150°C	ON	OFF	OFF	OFF	ON
0°C bis +160°C	OFF	ON	OFF	OFF	ON
0°C bis +200°C	ON	ON	OFF	OFF	ON
0°C bis +250°C	OFF	OFF	ON	OFF	ON
0°C bis +400°C	ON	OFF	ON	OFF	ON
0°C bis +600°C	OFF	ON	ON	OFF	ON
+10°C bis +35°C	ON	ON	ON	OFF	ON

#### Note:

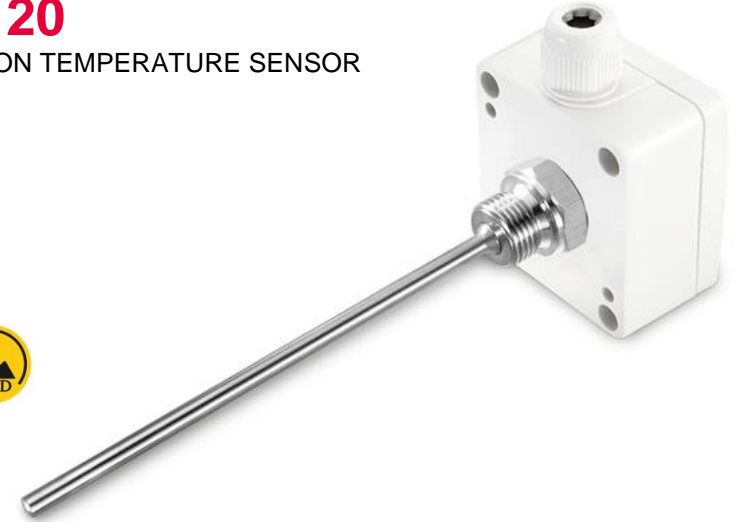
Einstellung des Temperaturbereiches berücksichtigt werden und dürfen nicht überschritten werden.  
The mentioned maximum temperatures in the technical specifications have to be considered in selecting or setting the temperature range and may not be exceeded.

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## I-TT-L-10 / 20

SCREW-IN/IMMERSION TEMPERATURE SENSOR



Made in Germany

#### Application

For measuring the temperature of liquid/aggressive and gaseous media. The I-TT-L is used in heating, ventilation, refrigeration and air conditioning applications. The sensor is easily mounted to the container or duct to be measured with the help of the G 1/2" terminal thread. With the help of the respective sensors (see below), the device can be connected to all conventional control and display systems. The sensors are equipped with a standardized 0...10 V or 4...20mA output and can be connected to any PLC or DDC

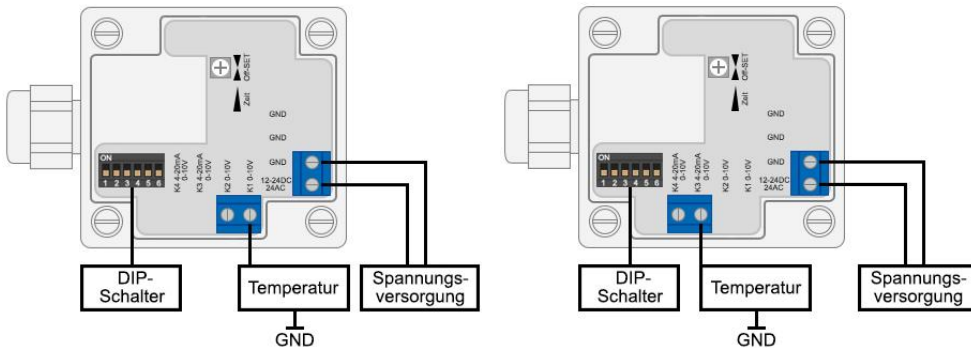
## Technical Data:

<b>Transmitter</b>	
Required temperature sensor:	Pt1000 Klasse B (2-Leiter)
Power supply:	at 4-20 mA = 15-36VDC at 0-10V = 15-36VDC, 24VAC
Burden analog output:	300...1000 Ohm at 4-20mA
load analog output:	min. Lastwiderstand 10kOhm bei 0-10V
Current consumption at 0-10V:	20mA
Current consumption at 4-20mA:	24-44mA
Accuracy:	+/- 0,2K + max. 3% vom Endwert
Measurement range:	24 Messbereiche wählbar
Operation temperature transmitter:	-30°C ... +70°C
connection:	3-Leiter (bei 4-20mA optional 2-Leiter)
standards:	CE, EMV after EN61326-1 2006, EMV Richtlinie 89/336/EWG
<b>Temperature sensor</b>	
Measurement range sensor rod:	-50°C ... +180°C
Temperature sensor:	PT1000 class B (2-Leiter)
Connection clamp:	Screw clamp max. 1,5 mm <sup>2</sup>
Protection pipe:	6 mm, VA
Installation length:	50/100/150/200/300/400 mm
Tmax. case:	+100°C
case:	PA6 15% GK, colour RAL9010
measurement case (L x B x H):	65 x 60 x 38 mm
Protection class:	IP65

## electrical connection

### 0-10V

### 4-20mA

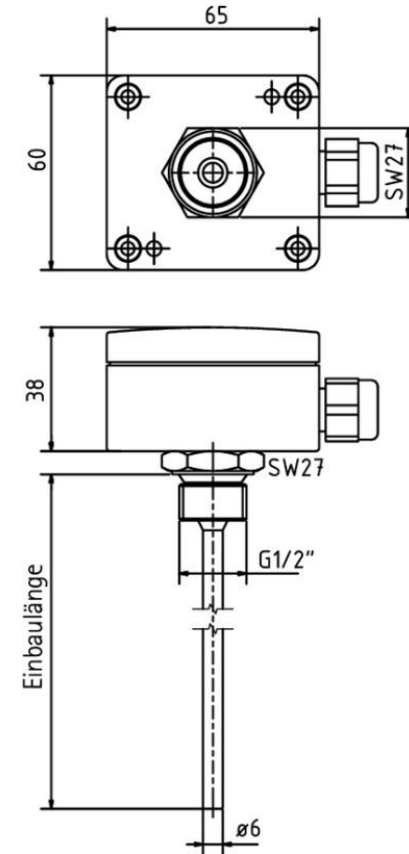


The temperature sensors are designed for safety extra low voltage operation ( SELV ). The specifications in this Data Sheet are considered. For version with Pt -1000 sensor in two-wire version, the line resistance of the connecting cable ( cable) must be considered. This can be corrected in the display or evaluation electronics.

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## Technical drawing



## General informations

- Installation of the equipment must be performed by qualified personnel.
- The device may only be connected with the power off .
- The safety of the VDE, the states , the TÜV and the local energy supply company must be observed.
- The EMC directives are observed. It must be shielded connecting cables , and a parallel installation to live
- Pipes to be avoided.
- The operation in the vicinity of equipment that does not comply with EMC directives may adversely affect the functioning
- The buyer has to ensure compliance with the applicable building and safety guidelines
- This product should not be used for safety-related tasks , such as for the protection of persons as emergency stop switch on equipment .
- Improper use of any deficiencies or damage are excluded from warranty or liability .
- Consequential damages caused by a fault in this device are excluded from warranty or liability .
- Only the technical data and connecting conditions of installation and operating instructions supplied with the instrument . Changes are possible at any time in the sense of technical progress and the improvement of the products.
- Changes of the device by the user, all warranty claims .