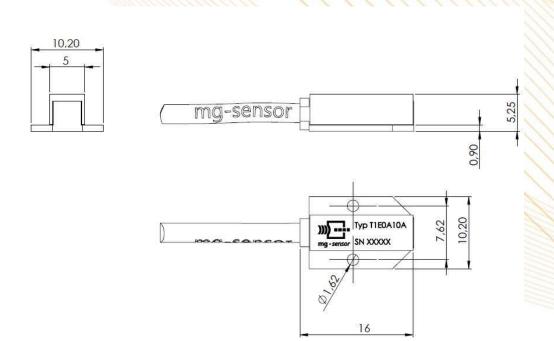
# **Temperature Sensors**

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<sup>\*</sup>additional versions available on request!

T1E0A10A	Description	Temperature sensor		
	Measuring range	°C	-20+100	
	Sensitivity <sup>1)</sup>	mV/°C	10	
	Output signal <sup>1), 2)</sup>	V	1,0	
	Zero signal <sup>1)</sup>	mV/V	230 ±15	at 23°C
	Amplitude non-linearity <sup>3)</sup>	%	≤ 0,2	
	Current consumption	mA	0,2	
	Supply voltage	V	5-15	
	Insulation resistance	ΜΩ	> 100	
	Temperature range	°C	-40+125	
	Weight (approximate)	g	5	

All values measured at 10 V sensor supply voltage and at 23 °C.



<sup>&</sup>lt;sup>1)</sup> Typical value, <sup>2)</sup> At nominal load, <sup>3)</sup> Relative nominal range

T1E0B10A	Description	Tempera	ature Measu	rement Module
	Measuring range	°C	-25+440	Depending on the thermocouple
	Sensitivity <sup>1)</sup>	mV/°C	10	
1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Thermocouple type		J or K	
	Zero signal <sup>1)</sup>	mV/V	230 ±15	at 23 °C
	Amplitude non-linearity <sup>2)</sup>	%	≤ 0,6	
	Current consumption	mA	< 2,0	
	Supply voltage	V	6-15	- 44
	Insulation resistance	ΜΩ	> 100	
	Temperature range	°C	0+50	Temperature of the module
	Weight (approximate)	g	5	
	Dimensions	mm	W x H x D: 52 x 18 x 18	

All values measured at 10 V sensor supply voltage and at 23 °C.

<sup>1)</sup> Typical value, 2) At nominal load

Standard calibration range: 0 °C to 100 °C in 20 °C steps.

The thermocouple is not supplied.

Safety **Temperature** 

T1E0C10A	Description	Temper	ature Meas	urement Module
	Measuring range	°C	-50+500	Depending on the resistance sensor
	Sensitivity <sup>1)</sup>	mV/°C	10	
	Sensor type		PT100	
	Zero signal <sup>1)</sup>	mV/V	230 ±15	at 23°C
	Amplitude non-linearity <sup>2)</sup>	%	≤ 0,1	
	Current consumption	mA	< 2,0	
	Supply voltage	V	6-15	
	Insulation resistance	ΜΩ	> 100	
	Temperature range	°C	-20+75	Temperature of the module
	Weight (approximate)	g	5	
	Dimensions	mm	W x H x D:	52 x 18 x 18

All values measured at 10 V sensor supply voltage and at 23 °C.

Standard calibration range: 0 °C to 100 °C in 20 °C steps.

The PT100 sensor element is not supplied.

<sup>&</sup>lt;sup>1)</sup>Typical value, <sup>2)</sup>At nominal load

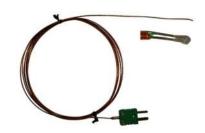
### T1E0110A Description Miniature Thermocouple Restricted by the Measuring range °C insulated material Туре К -50..+250 Sensitivity<sup>1)</sup> Depending on the Туре К μV/°C 41 applied temperature Per core Diameter 0,2 Conductor mm 1,0 Insulation mm Color coding According to IEC Туре К Green Insulated material **PFA** Connection cable m 5,0 Adhesive pad For surface mounting (loosely enclo-Length 18 mm Width 13 sed) mm Weight (approximate) < 10 Without connector g

All values measured at 10 V sensor supply voltage and at 23 °C.

<sup>1)</sup> Typical value

Safety **Temperature** 

## T1E0110B



	Description	Miniature Thermocouple		
	Measuring range Type K	°C	-50+250	Restricted by the insulated material
	Sensitivity <sup>1)</sup> Type K	μV/°C	41	Depending on the applied temperature
	Diameter Conductor Insulation	mm mm	0,2 1,0	Per core
	Color coding Type K	-	Green	According to IEC
	Insulated material	-	PFA	
	Connection cable	m	3,0	
	Adhesive pad Length Width	mm mm	18 13	For surface mounting (loosely enclosed)
1	Weight (approximate)	g	< 10	Without connector

All values measured at 10 V sensor supply voltage and at 23 °C.

<sup>1)</sup> Typical value

### T1E0110C



Description	Miniature Thermocouple		
Measuring range Type K	°C	-50+250	Restricted by the insulated material
Sensitivity <sup>1)</sup> Type K	μV/°C	41	Depending on the applied temperature
Diameter Conductor Insulation	mm mm	0,2 1,0	Per core
Color coding Type K	-	Green	According to IEC
Insulated material	-	PFA	
Connection cable	m	5,0	
Adhesive pad Length Width	mm mm	25 25	For surface mounting (loosely enclosed)
Weight (approximate)	g	< 10	Without connector

All values measured at 10 V sensor supply voltage and at 23 °C.

<sup>1)</sup> Typical value

Safety **Temperature** 

### T1E0210A Description Miniature Thermocouple Restricted by the Measuring range °C insulated material Type J -50..+250 Sensitivity<sup>1)</sup> Depending on the Type J μV/°C 50 applied temperature Per core Diameter 0,2 Conductor mm 1,0 Insulation mm Color coding Type J Black According to IEC PFA Insulated material Connection cable m 2,0 Adhesive pad For surface mounting (loosely Length 18 mm 13 enclosed) Width mm Weight (approximate) < 10 Without connector g

All values measured at 10 V sensor supply voltage and at 23 °C.

<sup>1)</sup> Typical value