

# Temperature probe with M8 connector

**Article no.: 803614 1011**

Temperature probes with M8 connectors are used in process measurement technology and measure the temperature in cables or containers in the range from -30 °C to +400 °C in gaseous or liquid media. The protection sleeve is made of stainless steel. You can insert the probe into the process via a mounting flange or immersion sleeve. To order your probe, select the required configuration and send us the order code.



General Information	
Measuring range	-50 °C to +400 °C
Accuracy	depending on sensor Type
Supply and output	
Max. meas. current	max. 1 mA
Supply voltage	approx. 5 V depending on measurement current
Measurement signal	passive (resistance value)
Ambient conditions	
Protection class	IP65 according to DIN 60529
Humidity and moisture condensation resistance	according to application-specific qualification
Certificates and Standards	
Standards	DIN EN 61326-1:2013   DIN EN IEC 63000:2019-05
Directive	RoHS 2011/65/EU   2014/30/EU

**Customizable options**

- A-Measuring element
- B-Connection Type
- C-Mounting length
- L - Temperature range

A - Measuring element				
Code	Sensor	Accuracy / Tolerance resistance	From (°C) <sup>1)</sup>	To (°C) <sup>1)</sup>
A011	Pt100	Cl. A dT = ±(0,15 °C + 0,002 t ) <sup>1)</sup>	-50 °C	<sup>1)</sup> +300 °C
A012	Pt100	Cl. B dT = ±(0,30 °C + 0,005 t ) <sup>1)</sup>	-50 °C	<sup>1)</sup> +400 °C
A013	Pt100	1/3 Cl. B dT = ±(1/3 · (0,30 °C + 0,005 t )) <sup>1)</sup>	-50 °C	<sup>1)</sup> +200 °C
A014	Pt100	1/10 Cl. B dT = ±(1/10 · (0,30 °C + 0,005 t )) <sup>1)</sup>	±0 °C	<sup>1)</sup> +100 °C
A022	Pt500	Cl. B dT = ±(0,30 °C + 0,005 t ) <sup>1)</sup>	-70 °C	<sup>1)</sup> +500 °C
A031	Pt1000	Cl. A dT = ±(0,15 °C + 0,002 t ) <sup>1)</sup>	-50 °C	<sup>1)</sup> +300 °C
A032	Pt1000	Cl. B dT = ±(0,30 °C + 0,005 t ) <sup>1)</sup>	-50 °C	<sup>1)</sup> +400 °C
A106	NTC 5 kOhm	R25 = 5 KOhm ±1 %	-40 °C	<sup>1)</sup> +150 °C

<sup>1)</sup>according to IEC 751 / EN 60751 | <sup>2)</sup> Perm. range °C | Detailed information and the characteristics can be found in our download area.

B - Connection Type	
Code	Conn. Type
B2	2-Wire (2W)
B3	3-Wire (3W)
B4	4-Wire (4W)

Possible connections			
Sensor	2W	3W	4W
Pt	✓	✓	✓
NTC	✓		

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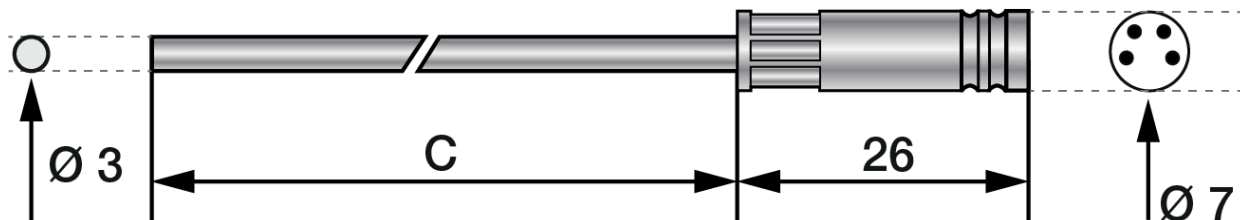
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Webshop unter: [www.testo-sensor.shop](http://www.testo-sensor.shop)

Connector	
Electrical connection	Plug connection secured by thread
Length connector (mm)	13
Tmax connector	+80 °C

Protection sleeve					
		C - Mounting length			
Material	Stainless steel 1.4571   316TI	Code	Length (mm)	Code	Length (mm)
Length (mm)	please choose	C0020	20 <sup>1)</sup>	C0100	100 <sup>1)</sup>
Ø (mm)	3 <sup>2)</sup>	C0040	40 <sup>1)</sup>	C0200	200 <sup>1)</sup>
		C0050	50 <sup>1)</sup>	C0300	300 <sup>1)</sup>
		C0060	60 <sup>1)</sup>		
2) Tolerance ± 0,1 mm		Other mounting lengths on request   1)Tolerance ± 1%   Please note: Mounting length = C + 15 mm			

L - Temperature range	
Code	Feature
L18	max. 180 °C (with heat-conducting paste)
L40	max. 400 °C (without heat-conducting paste)

Technical drawing			
<b>Customizable options</b> A - Measuring element	B - Connection Type	C - Mounting length L - Temperature range	All dimensions in mm



Delivery and Assembly	
Assembly instructions	by using an existing protection sleeve, mounting flange, immersion sleeve or compression fitting
Delivery and Packaging	Probe, seperatly packaged in PE bag

Your order code				
Article no.	Measuring element	Connection Type	Mounting length	Temperature range
803614 1011	A____	B____	C____	L__

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# Matching accessories: Compression fittings

## Compression fitting with PTFE clamping ring

Compression fittings with PTFE clamping ring can be used several times. They are only pressure-tight up to 10 bar. For assembly, please tighten the connecting nut of the compression fitting by hand as far as it will go (clearly noticeable) by hand. With a wrench suitable for the width across flats, please make a 1/4 turn for compression fittings with PTFE pressure ring.

	Article no.	809610 2XXX	Code	I - Ø Inside (mm)	Code	J - Process connection
Temp. max		+260 °C	0	1	27	M6x1 <sup>1)</sup>
Pressure proof up to		10 bar	1	1,5	28	M8x1 <sup>1)</sup>
Material		Stainless steel 1.4571   316TI	3	3	22	M10x1
Material clamping ring		PTFE	6	6	14	G1/8 "
Scope of delivery		Compression fitting, packed in PE bag			12	G1/4 "
					11	G1/2 "
Your order code		809610 2	-		--	

Append the code for Ø Inside & process connection to the article no. | <sup>1)</sup> not available for Ø Inside (I) 6 mm

## Dimensions for technical drawing

	I	J	A	B	C	D	E	F	G	H
1	M6x1 <sup>1)</sup>	SW10		13	SW12	13	9	8	31	Ø10
1,5	M8x1 <sup>1)</sup>	SW10		13	SW12	13,5	9,5	8	31	Ø11,8
3	M10x1	Ø 1,5 & 3: SW10   Ø 6: SW12		13	SW14	13,5	9,5	8	32	Ø13,8
6	G1/8 "	Ø 1,5 & 3: SW10   Ø 6: SW12		13	SW14	13,5	9,5	8	32	Ø13,8
	G1/4 "	Ø 1,5 & 3: SW10   Ø 6: SW12		13	SW19	20	14	12	38,5	Ø18
	G1/2 "	Ø 1,5 & 3: SW10   Ø 6: SW12		13	SW27	23	17	14	38,5	Ø26

All dimensions in mm | <sup>1)</sup> not available for Ø Inner (I) 6 mm

## Compression fitting with stainless steel cutting ring

In compression fittings with stainless steel cutting ring, the compression fitting connects with the protective sleeve. This connection is pressure-resistant up to 40 bar. Therefore, these compression fittings can also only be used once and must be tightened more firmly. For assembly, please tighten the union nut of the compression fitting by hand as far as it will go (clearly noticeable). With a wrench suitable for the wrench size, please make 1 3/4 turns for compression fittings with stainless steel cutting ring.

	Article no.	809610 1XXX	Code	I - Ø Inside (mm)	Code	J - Process connection
Temp. max		+800 °C	1	1,5	27	M6x1 <sup>1)</sup>
Pressure proof up to		40 bar	3	3	28	M8x1 <sup>1)</sup>
Material		Stainless steel 1.4571   316TI	6	6	22	M10x1
Material clamping ring		Stainless steel 1.4571   316TI			14	G1/8 "
Scope of delivery		Cutting ring screw fitting, packed in PE bag			12	G1/4 "
					11	G1/2 "
Your order code		809610 1	-		--	

Append the code for Ø Inside & process connection to the article no. | <sup>1)</sup> not available for Ø Inside (I) 6 mm

## Dimensions for technical drawing

	I	J	A	B	C	D	E	F	G	H
1	M6x1 <sup>1)</sup>	SW10		13	SW12	13	9	8	31	Ø10
3	M8x1 <sup>1)</sup>	SW10		13	SW12	13,5	9,5	8	31	Ø11,8
6	M10x1	Ø 1,5 & 3: SW10   Ø 6: SW12		13	SW14	13,5	9,5	8	32	Ø13,8
	G1/8 "	Ø 1,5 & 3: SW10   Ø 6: SW12		13	SW14	14	9,5	8	32	Ø13,8
	G1/8 "	Ø 1,5 & 3: SW10   Ø 6: SW12		13	SW19	20	14	12	38,5	Ø18
	G1/4 "	Ø 1,5 & 3: SW10   Ø 6: SW12		13	SW27	23	17	14	38,5	Ø26

All dimensions in mm | <sup>1)</sup> not available for Ø Inner (I) 6 mm

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