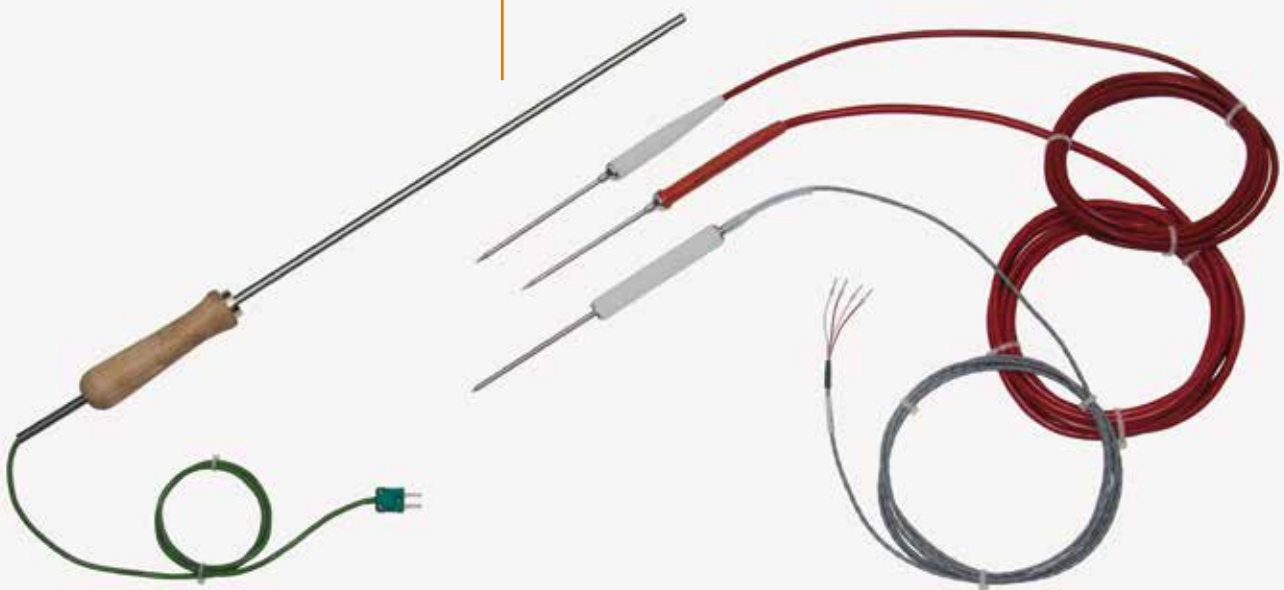


# Data sheet



## Product group 7W-EWTF

Insertion temperature probe with handle and cable

## Product group **7W-EWTF** Insertion temperature probe with handle and cable

The temperature sensors in this series are most commonly used to measure the temperature inside products and to control the temperature during thermal processing.

The measuring tips of the sensors have different shapes, either flat, pointed (conical or angled tip) or extended. The cable coming out of the handle has either free ends or a special plug for connecting the sensor to the measuring device.

As standard, the sensors are equipped with a resistance thermometer, i.e. 1x Pt100 or 1x Pt1000 in 2-, 3- or 4-wire configuration. Double versions and versions with an additional sensor (e.g. Pt500) or a thermocouple are also available as options.

The handle is made of various materials such as Teflon, silicone, stainless steel or wood. The length and insulation material of the cable are selected according to the individual specifications and requirements.

When using sensors for control measurements, it is possible to supply the sensor and the measuring device with a calibration certificate.



With special **ALOXMA** coating for use in the non-ferrous metal industry

### Applications of insertion temperature probes with handle and cable



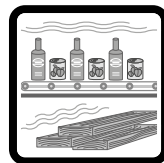
Agriculture



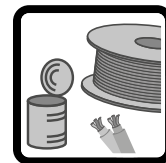
Food industry



Tests and Control measurements



Thermal treatment processes



Aluminium and non-ferrous metal industry

## Product group **7W-EWTF**

### Insertion temperature probe with handle and cable

Example of a common design in this product group:

<b>1</b>	<b>Connecting cable</b>
	Silicone
	PFA
	FEP
<b>2</b>	<b>Handle</b>
	PTFE
	Silicone
	Stainless steel
<b>3</b>	<b>Measuring needle</b>
	Stainless steel 1.4404 / 1.4571
	Diameter 3 mm, 4 mm, 4.5 mm
<b>4</b>	<b>Measuring tip</b>
	Conical
	Oblique
<b>5</b>	<b>Sensor</b>
	1x Pt100    2-wire
	1x Pt100    3-wire
	1x Pt100    4-wire
	2x Pt100    2-wire
	2x Pt100    3-wire

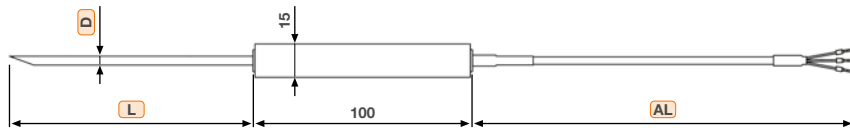


Special solutions such as materials not listed here, process connections, accessories, etc. can often be realised on request.

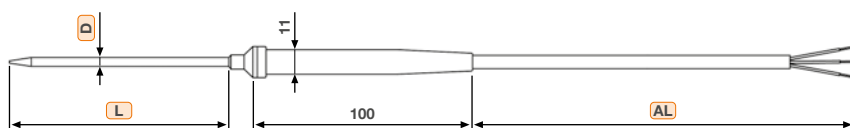
**Please contact us!**

## Product group **7W-EWTF** Insertion temperature probe with handle and cable

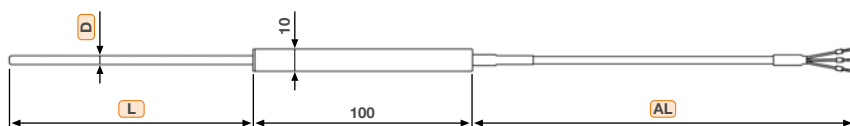
**1: Push-in temperature probe with a straight Teflon handle**



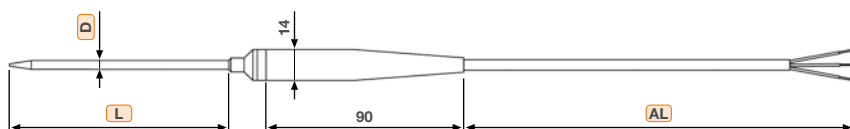
**2: Push-in temperature probe with a profiled silicone handle**



**3: Push-in temperature probe with a straight stainless steel handle**



**4: Push-in temperature probe with a profiled Teflon handle**



- D** Diameter
- L** Immersion length
- AL** Cable length

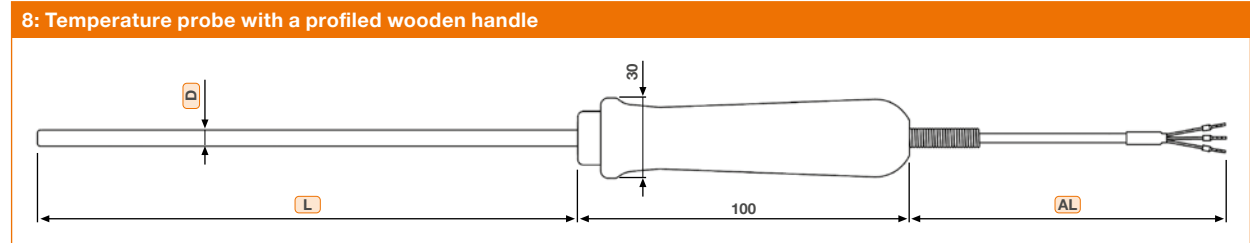
## Product group **7W-EWTF**

### Insertion temperature probe with handle and cable

#### Article number key for insertation probes with handle and cable

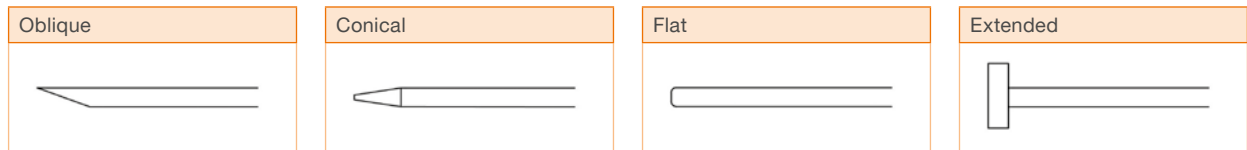
Product group	7	W	-	1	1	3	2	4	0	3	6	-	0	4	0	0	.	1	0	0	.	1	M	0	2	
<b>Construction</b>																										
Teflon handle				1																						
Profiled silicone handle				2																						
Stainless steel handle				3																						
Profiled Teflon handle				4																						
Other construction				9																						
<b>Measuring element / sensor</b>																										
1x Pt100 2-wire					1	2																				
1x Pt100 3-wire					1	3																				
1x Pt100 4-wire					1	4																				
1x Pt1000 2-wire					1	6																				
1x Pt500 2-wire					1	5																				
2x Pt100 2-wire					2	2																				
2x Pt100 3-wire					2	3																				
1x Type K / NiCr-Ni, insulated hot-junction					6	1																				
Other: see table in data sheet 7X series																										
<b>Limit deviation</b>																										
Class B (acc. IEC 60751, for RTD Pt100/Pt1000/Pt500)																										
Class A (acc. IEC 60751, for RTD Pt100/Pt1000/Pt500)																										
Class 1 (acc. IEC 60584, for TC type K)																										
<b>Diameter (D)</b>																										
Diameter 3 mm																										
Diameter 4 mm																										
Diameter 4.5 mm																										
Other on request																										
<b>Cable termination</b>																										
Free Ends																										
Ferrules																										
Other: see table in data sheet 7X series																										
<b>Cable length (AL)</b>																										
In m with 2 decimal digits, e.g. 4.00 m																										
<b>Immersion length (L)</b>																										
In mm e.g. 100 mm																										
<b>Measuring tip</b>																										
Conical																										
Oblique																										
Flat																										
Expanded																										
Other																										
<b>Cable insulation</b>																										
Silicone / silicone ( $T_{max} +200^{\circ}C$ )																										
FEP-Cu-FEP ( $T_{max} +200^{\circ}C$ )																										
Other: see table in data sheet 7X series																										
<b>Remarks / Extras / next execution number</b>																										
No extras																										
Heat shrink tube / sleeve strain relief																										
Next number is given by the manufacturer																										

## Product group **7W-EWTF** Insertion temperature probe with wooden handle and cable

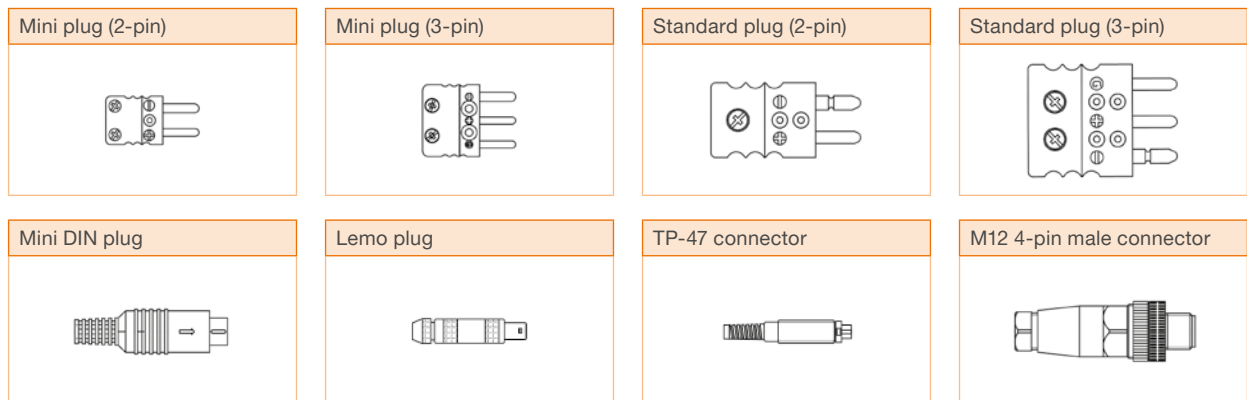


- D** Diameter
- L** Immersion length
- AL** Cable length

### Available measuring tips shapes



### Electrical connectors optionally mounted on the sensor cable



Other connectors, i.e. plugs, sockets, etc. available on request.

## Product group **7W-EWTF**

### Insertion temperature probe with wooden handle and cable

#### Article number key for temperature probes with handle and cable

Product group	7	W	-	8	1	3	2	4	0	3	6	-	0	4	0	0	.	1	0	0	.	1	M	0	2
<b>Construction</b>																									
Profiled wooden handle				8																					
Other construction				9																					
<b>Measuring element / sensor</b>																									
1x Pt100 2-wire					1	2																			
1x Pt100 3-wire					1	3																			
1x Pt100 4-wire					1	4																			
1x Type N / NiCr-NiSi, insulated hot-junction					4	9																			
1x Type J / Fe-CuNi, insulated hot-junction					5	1																			
1x Type K / NiCr-Ni, insulated hot-junction					6	1																			
Other: see table in data sheet 7X series																									
<b>Limit deviation</b>																									
Class B (acc. IEC 60751, for RTD Pt100/Pt1000/Pt500)							1																		
Class A (acc. IEC 60751, for RTD Pt100/Pt1000/Pt500)							2																		
Class 1 (acc. IEC 60584, for TC type K)							1																		
<b>Diameter (D)</b>																									
From 2.0 mm to 9.9 mm with 1 decimal digit, e.g. 4.0 mm								4	0																
<b>Cable termination</b>																									
Free Ends										3	0														
Ferrules										3	6														
Other: see table in data sheet 7X series																									
<b>Cable length (AL)</b>																									
In m with 2 decimal digits, e.g. 4.00 m													0	4	0	0									
<b>Immersion length (L)</b>																									
In mm e.g. 100 mm																		1	0	0					
<b>Measuring tip</b>																									
Conical																							1		
Oblique																							2		
Flat																							3		
Expanded																							4		
Other																							9		
<b>Cable insulation</b>																									
Silicone / silicone (T <sub>max</sub> +200°C)																							S		
FEP-Cu-FEP (T <sub>max</sub> +200°C)																							M		
Other: see table in data sheet 7X series																									
<b>Remarks / Extras / next execution number</b>																									
No extras																								0	0
Strain relief spring																								0	1
Heat shrink tube / sleeve strain relief																								0	2
Strain relief spring, metal probe with Aloxxma coating																								0	3
Next number is given by the manufacturer																									



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