Temperature sensor T45

With connection cable // 0...600 °C



T45

Highlights

- For exhaust gas temperature measurement in diesel and gas engines, turbines and compressors → Up to 600 °C media temperature
- Very high vibration and shock resistance → Reliable and long-lasting operation
- Available as single and double thermocouple
- Extremely resistant connecting cable → Enables use in harsh environments

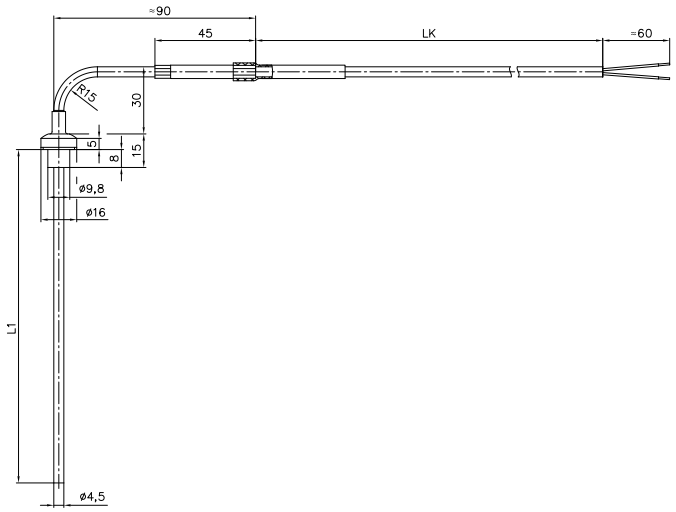
Technical data	
Type	Temperature sensor with connection cable
Measuring range	0…600 °C
Measuring medium	Exhaust gases marine diesel engines
Immersion tube length	45…150 mm
Immersion tube diameter	4.5 mm
Process connection	Nipple
Nominal pressure	PN 25
Medium temperature	0...600 °C
Ambient temperature	-40...85 °C
Storage temperature	-25...70 °C
Degree of protection according to EN 60529	IP54

Electrical data	
Measuring element	1 x NiCr-Ni (Type K) 2 x NiCr-Ni (Type K)
Measuring insert	Not interchangeable
Accuracy	Class 1 / ±1.5 °C or 0.004 x T
Electrical connection	FEP cable

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Technical drawing

T45



All dimensions in mm

Materials

Materials	
In contact with media	
Process connection	Stainless steel 1.4571
Protection tube	Stainless steel 1.4571 or Inconel 2.4816

Article numbers

Order code								
Type								
Thermocouple	T							
Diameter								
4.5 mm		45						
Material								
Stainless steel 1.4541			3					
Inconel 2.4816			4					
Sensor element								
1 x NiCr-Ni (Type K)				1TK				
2 x NiCr-Ni (Type K)				2TK				
Nominal length L_1								
45 mm					045			
80 mm					080			
104 mm					104			
138 mm					138			
150 mm					150			
Electrical connection								
FEP cable						07		
Process connection								
Nipple SW5, 3-4 mm, Stainless steel 1.4571							1	
Cable length LK								
1.0 m								01
1.5 m								02
2.0 m								03
2.5 m								04
Example order number	**T**	**45**	**3**	**1TK**	**045**	**07**	**1**	**01**

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