Temperature sensors WMJ

Head type J // -40...200 °C



WMJ

Highlights

- For measurement of cooling water, lubricating oil and hydraulic oil temperature → Application in industrial and marine applications
- Simple alignment of the connection head → Simple installation on site
- Very high vibration resistance → Reliable and long-lasting operation
- Customer-specific variant possible → Simple integration into plants / systems
- Available as single and double resistance thermometers
- Optionally integrable transmitter → Simple integration into process control systems

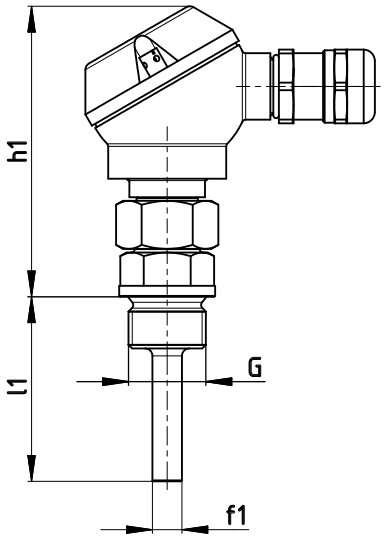
Technical data	
Type	Temperature sensor with connection head type J
Measuring range	-40...200 °C
Measuring medium	Water and aqueous liquids, non-aggressive gases
Immersion tube length	50...200 mm
Immersion tube diameter	8 mm or 12 mm
Process connection	G½, G¾, G¼
Nominal pressure	PN 25
Ambient temperature	-40...85 °C
Storage temperature	-25...70 °C
Degree of protection according to EN 60529	IP54
Approvals	
DNV, ABS, LR, BV, RINA	

Electrical data	
Measuring element	1 x Pt100 / 3-wire 2 x Pt100 / 2-wire 1 x Pt1000 / 2-wire 2 x Pt1000 / 2-wire
Measuring insert	Interchangeable
Accuracy	Class A / ±(0.15 K + 0.002 x T) Class B / ±(0.30 K + 0.005 x T)
Electrical connection	Head type J with ceramic socket Head type J with transmitter
Analogue output	
Current signal	4...20 mA
Supply voltage	10...35 VDC
Scaling	Programmable
Signal error	NAMUR NE43

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Technical drawing // Dimensions

WMJ



Dimensions [mm]				
Type	**l1**	**h1**	**G**	**f1**
WMJ	50, 80, 100, 150 or 200	80	G½, G¾ or G¼	8 or 12

Materials

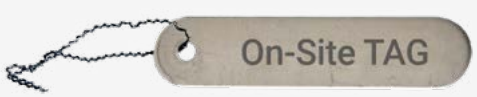
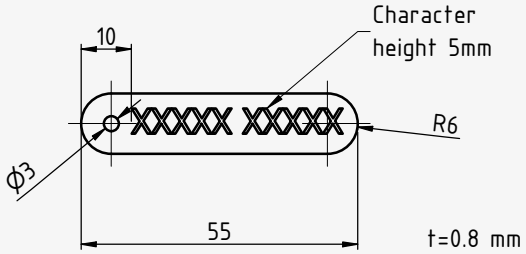
Materials	
Not in contact with media	
Connection head	Die-cast aluminium, silver painted
In contact with media	
Process connection	Stainless steel 1.4571
Protection tube	Stainless steel 1.4571

Article numbers

Order code								
Type								
Resistance thermometer	W							
Diameter f1								
8 mm		08						
12 mm		12						
Material								
Stainless steel 1.4571			3					
Sensor element								
1 x Pt100 3-wire / Class B				P31				
1 x Pt100 2-wire / Class B				P21				
2 x Pt100 2-wire / Class B				P22				
1 x Pt1000 2-wire / Class B				P12				
2 x Pt1000 2-wire / Class B				P24				
Resistance thermometer / Class A				AXX				
Protection tube length l1								
50 mm					050			
80 mm					080			
100 mm					100			
150 mm					150			
200 mm					200			
Measuring insert								
Interchangeable						2		
Electrical connection								
Head type J with ceramic socket							J0	
Head type J with transmitter (without approvals and only with sensor element 1 x Pt100 2-wire)							JT	
Process connection G								
G½								2
G¾								3
G¼								L
Example order number	**W**	**08**	**3**	**P31**	**050**	**2**	**J0**	**2**

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Accessories

Accessories	Order number
Measuring point designation Laser-inscribed stainless steel plate with fixing wire for easy attachment to measuring points → **Scope of delivery:** Designation plate inscribed according to specification and enclosed fixing wire (sealing wire) → **Fastening:** Wire (included in delivery), alternatively sealing, cable ties or similar (not included in delivery) → **Materials:** Plate stainless steel 1.4571, wire stainless steel → **Dimensions:** Plate 55 x 10 x 0.8 mm, wire length 180 mm → **Inscription:** one-sided, single-line, max. 11 characters, character height 5 mm, designation width max. 40 mm, letters, numbers, symbols, barcodes, QR codes → **Transmission of designations:** digital list, file formats Excel, Word or CSV  	**ONSITETAG**