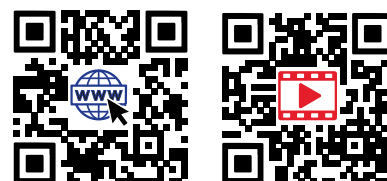


Temperature sensor W3M

With integrated transmitter // -20...200 °C



W3M



Highlights

- For measurement of cooling water, lubricating oil and hydraulic oil temperature
- Application in industrial and marine applications
- Efficient control due to very short response times (Version with 4 mm Immersion tube diameter / $T_{90} \leq 5$ s)
- Safe and compact electrical connection due to DIN angle plug
- High protection class against moisture, dust and dirt ingress
- Very high vibration resistance → Reliable and long-lasting operation
- Customer-specific variant possible → Simple integration into plants / systems

Technical data

Type	Temperature sensor with integrated transmitter
Measuring range	-20...200 °C
Measuring medium	Water and aqueous liquids, non-aggressive gases
Immersion tube length	50...250 mm (≥ 200 mm conical)
Immersion tube diameter	4, 6 or 8 mm
Process connection	G $\frac{1}{2}$, G $\frac{1}{4}$ or G $\frac{3}{4}$
Nominal pressure	PN 25
Medium temperature	-20...200 °C
Ambient temperature	-20...85 °C
Storage temperature	-20...70 °C
Degree of protection according to EN 60529	IP65

Approvals

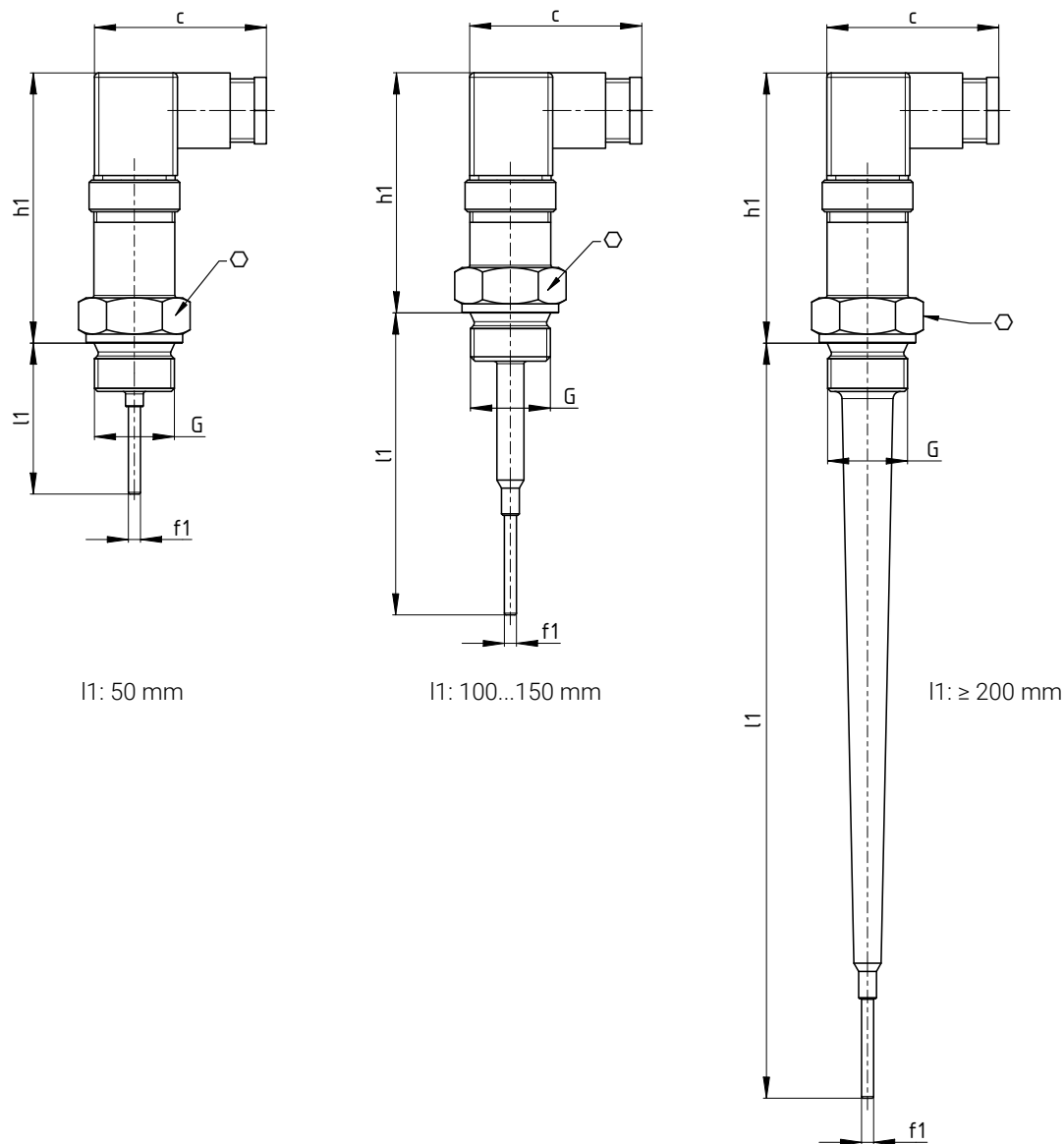
EU RO Mutual Recognition Type Approval Certificate (Marine version only). Covers: ABS, BV, CCS, CRS, DNV, IRS, KR, LR, ClassNK, PRS, RINA, RS

Electrical data

Measuring element	1 x Pt100 / Class B
Measuring insert	Interchangeable
Accuracy	± 1 % of range
Electrical connection	Angled plug, DIN EN 175 301-803, Form A
Analogue output	
Current signal	4...20 mA
Supply voltage	10...35 VDC
Scaling	Programmable
Signal error	NAMUR NE43

Technical drawings / Dimensions

W3M



Dimensions [mm]						
Type	l1	h1	c	⌀	G	f1
W3M	50, 100, 150, 200 or 250	max. 90	57	27 / 32	G½, G¼ or G¾	Ø 4, Ø 6 or Ø 8

Materials

Materials	
Not in contact with media	
Connection head	Plastic PA66 (Max. 125 °C)
In contact with media	
Process connection	Stainless steel 1.4571
Protection tube	Stainless steel 1.4571 / 1.4303 for Ø 4 mm

Article numbers

Standard version

Order code									
Type									
Resistance thermometer	W								
Diameter f1									
4 mm (stepped from 9 mm)	04								
6 mm	06								
8 mm	08								
Material									
Stainless steel 1.4571		3							
Sensor element									
1 x Pt100 / Class B			P21						
Immersion tube length l1									
50 mm				050					
100 mm				100					
150 mm				150					
200 mm				200					
250 mm				250					
Measuring insert									
Interchangeable					2				
Electrical connection									
Angled plug type A						90			
Process connection G									
G½								2	
G¾								L	
G¾								3	
Measuring range analogue output									
0...100 °C									10
0...150 °C									15
0...200 °C									20
Example order number		W	04	3	P21	050	2	90	2 10

Article numbers

Marine version

Order code						
Type						
Resistance thermometer		W				
Diameter f1						
4 mm (stepped from 9 mm)		04				
Material						
Stainless steel 1.4571		3				
Sensor element						
1 x Pt100 / Class B			P21			
Nominal length l1	Process connection G	Measuring range analog output				
50 mm	G3/4 A	0...100 °C				050-6369
100 mm	G3/4 A	0...100 °C				100-7352
100 mm	G3/4 A	0...150 °C				100-8741
100 mm	G1/4 A	0...200 °C				100-2786
100 mm	G1/2 A	0...200 °C				100-0176
100 mm	G3/4 A	0...200 °C				100-0211
140 mm	G1/4 A	0...200 °C				140-2798
140 mm	G1/2 A	0...200 °C				140-0188
140 mm	G3/4 A	0...200 °C				140-0223
150 mm	G3/4 A	0...100 °C				150-7364
150 mm	G3/4 A	0...150 °C				150-8728
200 mm	G3/4 A	0...100 °C				200-7388
200 mm	G3/4 A	0...150 °C				200-8704
250 mm	G3/4 A	0...100 °C				250-7411
Approvals						
EU RO Type Approval Certificate						M
Example order number		W	04	3	P21	050-6369 M