

Temperature sensor WKO

With integrated transmitter and plug connector // -50...150°C



Highlights

- Designed for use in harsh environments on construction and extraction machines
- The transmitter integrated in the housing provides a fail-safe and standardized output signal
- Safe electrical connection due to robust DEUTSCH connector system
- Very high vibration and shock resistance → Reliable and long-lasting operation
- High protection class against moisture, dust and dirt ingress
- Extremely resistant connecting cable → Enables use in harsh environments

Technical data

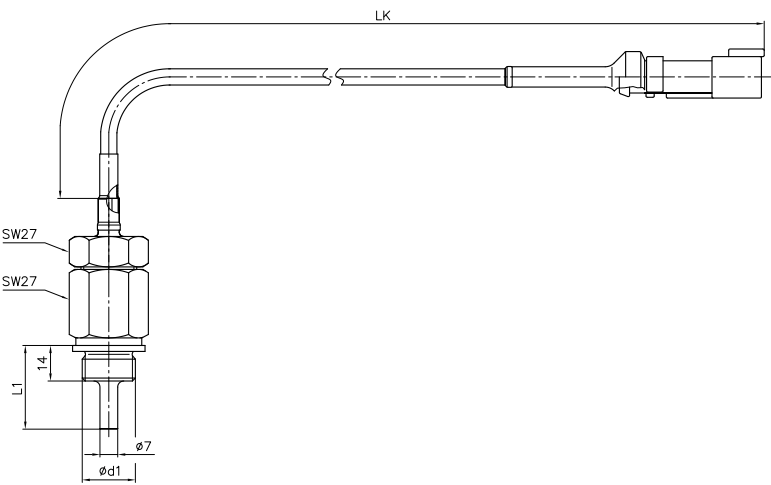
Type	Temperature sensor with integrated transmitter and plug connector
Measuring range	-50...150 °C
Measuring medium	Water and aqueous liquids, non-aggressive gases
Immersion tube length	30...100 mm
Immersion tube diameter	7 mm
Process connection	G½
Nominal pressure	PN 25
Medium temperature	-50...150 °C
Ambient temperature	-40...85 °C
Storage temperature	-25...70 °C
Degree of protection according to EN 60529	IP65

Electrical data

Measuring element	1 x Pt100 / 2-wire
Measuring insert	Not interchangeable
Accuracy	Class B / $\pm(0.30 K + 0.005 \times T)$
Electrical connection	FEP cable, wire braided, with mounted DEUTSCH plug or KENPUR 500, orange, with mounted DEUTSCH plug
Supply voltage → 4...20 mA → 0...10 V	10...35 VDC 15...30 VDC
Analogue output	
Current signal	4...20 mA or 0...10 V
Scaling	Programmable

Technical drawing

WKO



All dimensions in mm

Materials

Materials	
In contact with media	
Process connection	Brass 2.0401 or Stainless steel 1.4571
Protection tube	Brass 2.0401 or Stainless steel 1.4571

Article numbers

Order code									
Type									
Resistance thermometer		W							
Diameter									
7 mm		07							
Material									
Brass 2.0401			1						
Stainless steel 1.4571			3						
Sensor element									
1 x Pt100 2-wire / Class B				P21					
Nominal length L1									
30 mm					030				
100 mm					100				
Electrical connection									
FEP cable, wire braided						27			
KENPUR 500, orange						09			
Process connection d1									
G½							2		
Cable length LK									
1.0 m								01	
1.5 m								02	
2.0 m								03	
2.5 m								04	
Signal output									
4...20 mA, 2-wire									I
0...10 V, 3-wire									U
Example order number		W	07	1	P21	030	27	2	01 I