

WDS // with M12 plug // -40...150 °C



WDS

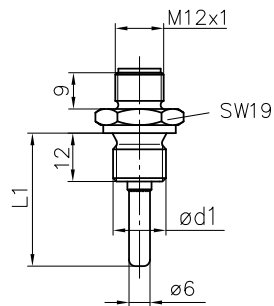
Your advantages

Type	WDS
	<ul style="list-style-type: none"> • The sensor is intended for measuring media in heating and air-conditioning systems as well as cooling circuits of machines and systems • Safe and compact electrical connection via M12 plug • High protection class against moisture, dust and dirt ingress • Short response time → Ideal for controlling rapidly changing process parameters • Very high vibration resistance → Reliable and long-lasting operation • Also available with digital 1-wire bus interface → Low cabling effort

Technical data	
Type	Temperature sensor with M12 plug
Measuring range	-40...150 °C
Measuring medium	Water and aqueous liquids, non-aggressive gases
Immersion tube length	38 or 100 mm
Immersion tube diameter	6 mm
Process connection	G $\frac{1}{4}$, G $\frac{1}{8}$, M12 x 1.5
Nominal pressure	PN 16
Medium temperature	-40...150 °C
Ambient temperature	-40...80 °C
Storage temperature	-25...70 °C
Degree of protection according to EN 60529	IP65

Electrical data	
Measuring element	1 x Pt100 / 3-wire 1 x Pt1000 / 2-wire 1 x DS18B20U+(digital) with integrated protection circuit 1 x NTC 5k
Measuring insert	Not interchangeable
Accuracy	Class A / $\pm(0.15 \text{ K} + 0.002 \times t)$ Class B / $\pm(0.30 \text{ K} + 0.005 \times t)$ Temperature sensor NTC 5k $\pm 0,5 \text{ °C}$ (Beta 1 %) Digital 1-wire bus temperature sensor $\pm 0.5 \text{ °C}$ (-10...85 °C)
Electrical connection	Flange plug M12 x 1, 4-pole, nickel-plated brass

WDS

**Materials****In contact with media****Process connection**

Stainless steel 1.4571

Protection tube

Stainless steel 1.4571

Order code								
Type								
Resistance thermometer		W						
Diameter								
6 mm		06						
Material								
Stainless steel 1.4571			3					
Sensor element								
1 x Pt100 3-wire / Class B				P31				
1 x Pt1000 2-wire / Class B				P12				
1 x DS18B20U+(digital) with integrated protection circuit				E01				
1 x NTC 5k				N01				
Resistance thermometer / Class A				AXX				
Nominal length L1								
38 mm					038			
100 mm					100			
Measuring insert								
Not interchangeable						0		
Electrical connection								
Flange plug M12 x 1							R0	
Process connection d1								
M12 x 1.5								R
G $\frac{1}{4}$								L
G $\frac{1}{8}$								M
Example order number		W	06	3	P31	038	0	R0
								R

