Resistance thermometer WTh 30 for hygienic processes



- Hygienic design as per EHEDG recommendations
- Compact design
- High accuracy
- Short response time
- Various process connections
- Transducer can be integrated



Application For temperature measurement in tanks, pipelines and applications requiring hygienic process connections, materials and processing. Specially suitable for food, pharmaceutical and biotechnology applications due to the compact design and the high accuracy.

Description WTh 30 consists of a robust stainless steel housing with various process connections and a Pt 100 measuring insert which is directly integrated in a thermowell. The change in resistance depending on the measured temperature is directly available as a signal or can be detected by a transducer and converted into a 4-20 mA output signal. The instrument will be offered, as standard, with a compact M12 plug connection.

specifications

Technical Measuring range

-50/+200 °C

Response time

As per to EN 60751, test in flowing water (without transducer) T 90 = 5.5 s

Sensor

1 x Pt 100, 4-wire Class A, IEC 751

Thermowell

Stainless steel 316, Ø 6 mm

Installation lengths

30, 35, 50, 100, 150, 200 mm

Housing

Stainless steel, Ø 18 mm

Degree of protection

IP 67 (EN 60529)

Electrical connections

M12 connection, connector housing stainless steel

Process connections

Stainless steel 316 L, one of the following: G1/2B; G½B conical, metal seal;

grooved union nut DIN 11851;

Clamp DIN 32676;

Clamp ISO 2852;

Tri-Clamp

VARIVENT® type N

Surface roughness

 $Ra < 0.8 \mu m$

Welding seam < 1.6 µm

Operating pressure

Max. 16 bar

(VARIVENT® type N max. 10 bar)

Technical Version

specifications Transducer directly integrated in the plug housing, Transducer (option) with encapsulated electronics.

Measuring ranges

0/100° C (standard) 0/150 °C -50/+100° C

Supply voltage

DC 8.5-36 V

Output signal

4-20 mA, 2-wire

- Options Integrated transducer
 - Other process connections
 - Electropolishing

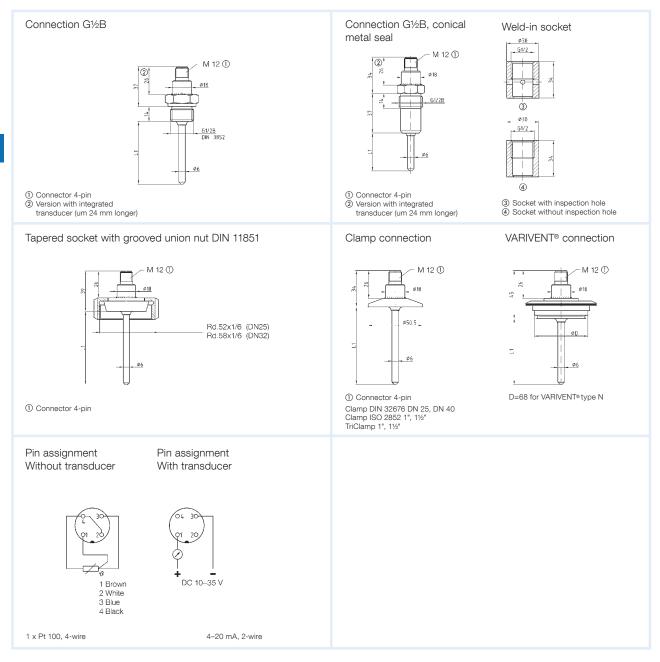
- Replaceable measuring insert
- Other installation lengths
- Weld-in sockets





Resistance thermometers WTh 30

Electrical connections and dimensions (mm)



Resistance thermometers WTh 30

DG: H, PG: 4

Туре	WTh 30	WTh 30 DK	WTh 30 MR	WTh 30 CP	WTh 30 VT
Version					
Sensor	1 x Pt 100 4-wire, class A	1 x Pt 100 4-wire, class A	1 x Pt 100 4-wire, class A	1 x Pt 100 4-wire, class A	1 x Pt 100 4-wire, class A
Thermowell/probe Diameter Material	6 mm Stainless steel 316 L	6 mm Stainless steel 316 L	6 mm Stainless steel 316 L	6 mm Stainless steel 316 L	6 mm Stainless steel 316 L
Process connection	G½B	G½B, conical, metal seal	Grooved union nut DIN 11851 DN 25/PN 40	Clamp ISO 2852 DN 25	VARIVENT® Type N
Electrical connection	M12 connector	M12 connector	M12 connector	M12 connector	M12 connector
Measuring range	-50/+200 °C	-50/+200 °C	-50/+200 °C	-50/+200 °C	-50/+200 °C
Installation length L1	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
30 mm	32302	32310	32318	32326	32334
35 mm	32303	32311	32319	32327	32335
50 mm	32304	32312	32320	32328	32336
100 mm	32305	32313	32321	32329	32337
150 mm	32306	32314	32322	32330	32338
200 mm	32307	32315	32323	32331	32339
Extra charges (without PG)	Price €	Price €	Price €	Price €	Price €
Installed transducer 4–20 mA*					
Process connection					
DIN 11851 DN 32					
ISO Clamp DN 38				No extra charge	
DIN Clamp DN 25				No extra charge	
DIN Clamp DN 40				No extra charge	
Tri-Clamp 1"				No extra charge	
Tri-Clamp 1½"				No extra charge	
Accessories				Part no.	Price €
Weld-in socket for G½B conical, metal seal, with inspection hole				32340	
Weld-in socket for G½B conical, metal seal, without inspection hole				32341	
Connector with cable, 5	metres				

^{*} Please specify desired measuring range: 0/100 °C (standard), 0/150 °C, -50/+100 °C (corresponding to 4–20 mA each).

Blue part no. = in-stock items

