

Resistance thermometers

benefits

- 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 and 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 sturdy stainless steel housing with diverse 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 is connected by means of a compact M12 plug connection.

Technical Specifications

Sensor

1 x
4-wire
class A, IEC 751

Thermowell

Ø 6 mm
Stainless steel 316 L

Process connection

G½B
Stainless steel 316 L

Electrical connection

connector M12
Connector housing: Stainless steel

Housing

material: Stainless steel
Diameter: 18 mm

Degree of protection

IP 67 (EN 60529)

Surface roughness

R_a: < 0.8 µm
welding seam: < 1.6 µm

Operating pressure

max. 16 bar

response time t_{90}

5.5 s as per EN 60751, test in flowing water (without transducer)

Measuring range

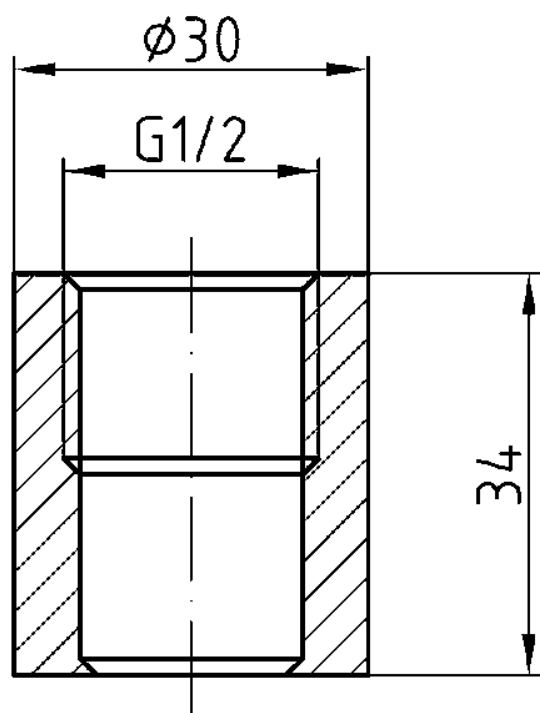
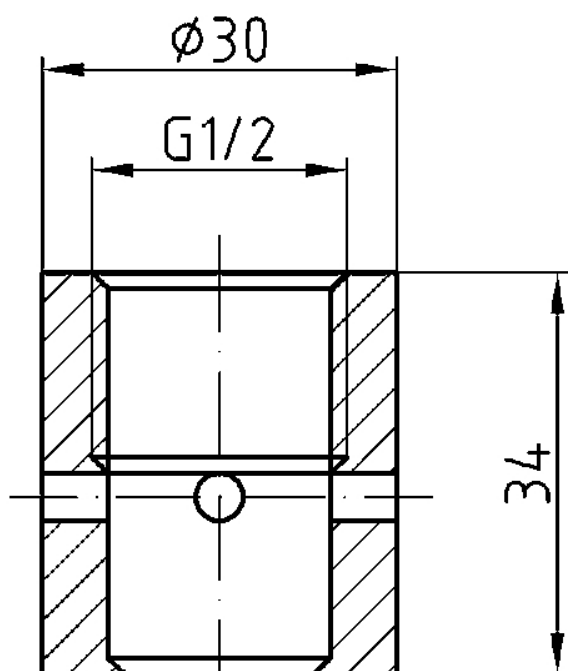
-50/+200 °C

Options

- integrated transducer
- other process connections
- Electropolishing
- replaceable measuring insert
- other installation lengths
- weld-in sockets

Technical Drawings

Weld-in socket



Dimensions (mm)

Socket with inspection hole
 Socket without inspection hole

Versions

		Installation length		Part no.
	Resistance thermometers WTh 30	30 mm	●	32302
	Resistance thermometers WTh 30	35 mm	●	32303
	Resistance thermometers WTh 30	50 mm	●	32304
	Resistance thermometers WTh 30	100 mm	●	32305
	Resistance thermometers WTh 30	150 mm	●	32306
	Resistance thermometers WTh 30	200 mm	●	32307

- in-stock items
- Non-stock items