



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 conical metal seal
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

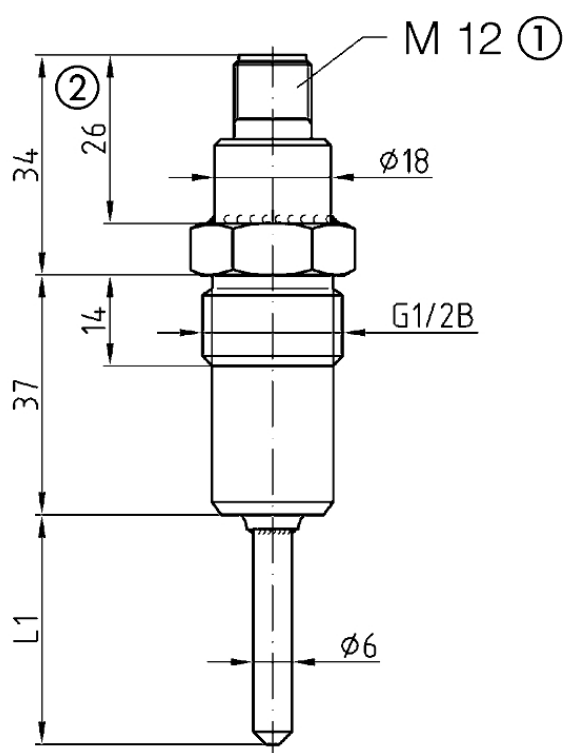
-50/+200 °C

Options

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

Technical Drawings

connection G1/2B, tapered, metallic seal



Dimensions (mm)

Connector 4-pin

version with integrated transducer (24 mm longer)

Versions

		Installation length		Part no.
	Resistance thermometers WTh 30 DK	30 mm	●	32310
	Resistance thermometers WTh 30 DK	35 mm	●	32311
	Resistance thermometers WTh 30 DK	50 mm	●	32312
	Resistance thermometers WTh 30 DK	100 mm	●	32313
	Resistance thermometers WTh 30 DK	150 mm	●	32314
	Resistance thermometers WTh 30 DK	200 mm	●	32315

- in-stock items
- Non-stock items