



Adjustable outside-thread Type  
TC130 (all temperature)



Standard Type TC130

- Temperature range from -50 to +600 °C
- With built-in measuring insert
- As single or double RTD temperature probes
- Available with transmitter

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Push-in RTD temperature probes for standard applications are preferentially used for measuring temperatures in liquids and gases. The application areas are, among others, in the air conditioning technology and refrigeration engineering as well as the HVAC and apparatus engineering sector.

The connection head is suitable for ambient temperatures up to +100 °C. In addition to the standard connection head form B, design BUZ is also available.

The measuring insert is normally fitted with a Pt100 temperature sensor according to DIN EN 60751, Class B in 2-wire circuit; versions with Pt500 or Pt1000 temperature sensors can also be supplied, as well as 4-wire circuit connections. A transmitter can be optionally integrated into the connection head.

- SS housing, all-in design with anti-condensation function and good heat dissipation.
- Good measuring repeatability and anti-interference.
- M12 connector, easy and quick to use.

#### Applications

- Monitoring for long-distance temperature signal transmission.
- Signal transfer from PT sensor to 4-20mA.
- For industries in heating / ventilation / air conditioning / cooling / water power/ electricity, etc.
- For process in agriculture / green house / environmental engineering / food / pharmaceutical industry.
- Machinery manufacturing / storage tank / compressor / hydraulic equipment.

## Technical data

<b>Terminal head</b>	Form B DIN EN 50446, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C Form A, die-cast aluminum, M 22x1.5; IP65, ambient temperature -40 to +100 °C Reduced ambient temperature when using transmitters
<b>Protection tube</b>	Stainless steel 1.4571, Ø 6 mm, Ø 8 mm, Ø 12 mm, Ø 16 mm
<b>Measuring insert</b>	Pt100 temperature sensor DIN EN 60751, cl. B, 2-wire circuit, built-in
<b>Response times</b>	$t_{0.5} = 5 \text{ s}$ , $t_{0.9} = 14 \text{ s}$ in water 0.4 m/s; Ø 6 mm
<b>Transmitter</b>	Analog transmitter, output 4 to 20 mA Analog transmitter, output 0 to 10 V Programmable transmitter, output 4 to 20 mA/20 to 4 mA
<b>Accessories</b>	Process connection, tube screw connection Ø 12 mm, Ø 16 mm Process connection, sheet steel flange Ø 16 mm

## Sensor

### Measuring element

Pt100, Pt1000

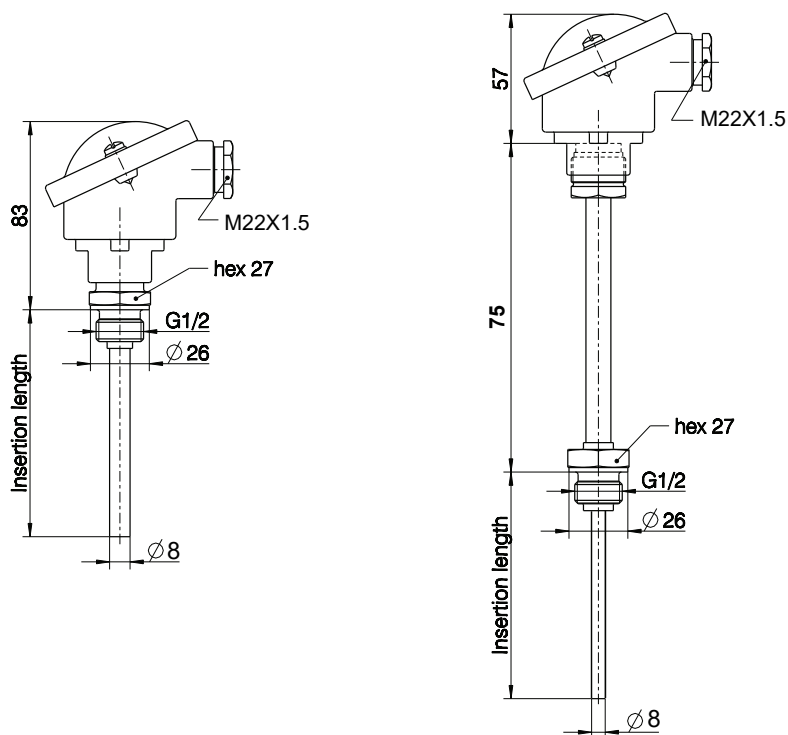
Connection method	
<b>Single elements</b>	1 x 2-wire 1 x 3-wire 1 x 4-wire
<b>Dual elements</b>	2 x 2-wire 2 x 3-wire 2 x 4-wire

### Validity limits of class accuracy per EN 60751

Class	Sensor construction
	Wire-wound
<b>Class B</b>	-50 ... +600 °C -50 ... +200 °C
<b>Class A</b>	-50 ... +600 °C -50 ... +400 °C

## Dimensions

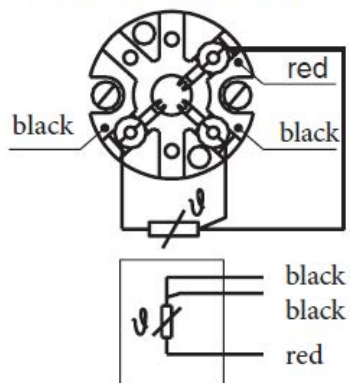
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## Electrical connection (TC130)

Standard Type

1 x Pt100, 3-wire



1 x Pt100, 4-wire

