



- Temperature range from -50 to +1100 °C
- With built-in measuring insert
- As single or double RTD temperature probes
- Available with transmitter

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

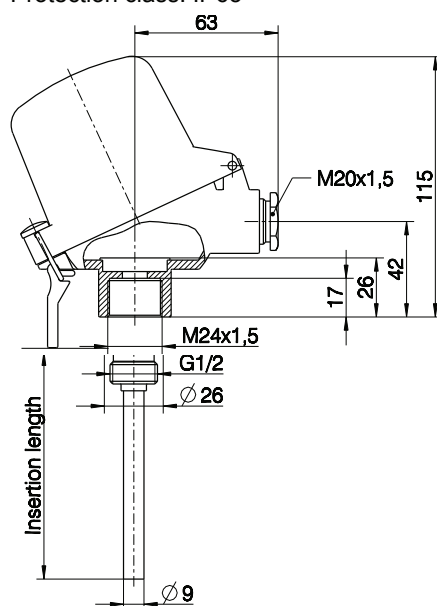
Terminal head	Form B DIN EN 50446, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C Form A, die-cast aluminum, M 20x1.5; IP65, ambient temperature -40 to +100 °C Reduced ambient temperature when using transmitters
Protection tube	Stainless steel 1.4571, Ø 6 mm, Ø 8 mm, Ø 12 mm, Ø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

Dimensions

Type 13

Material: diecast light metal

Protection class: IP65

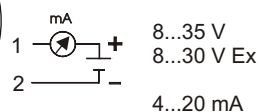
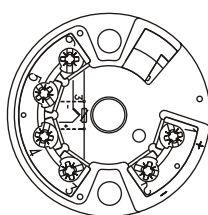
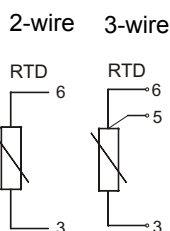


Electrical wiring(TB313)

Standard Type

Connection Diagram TC120 with Transmitter TB313

Part 1



Part 2

