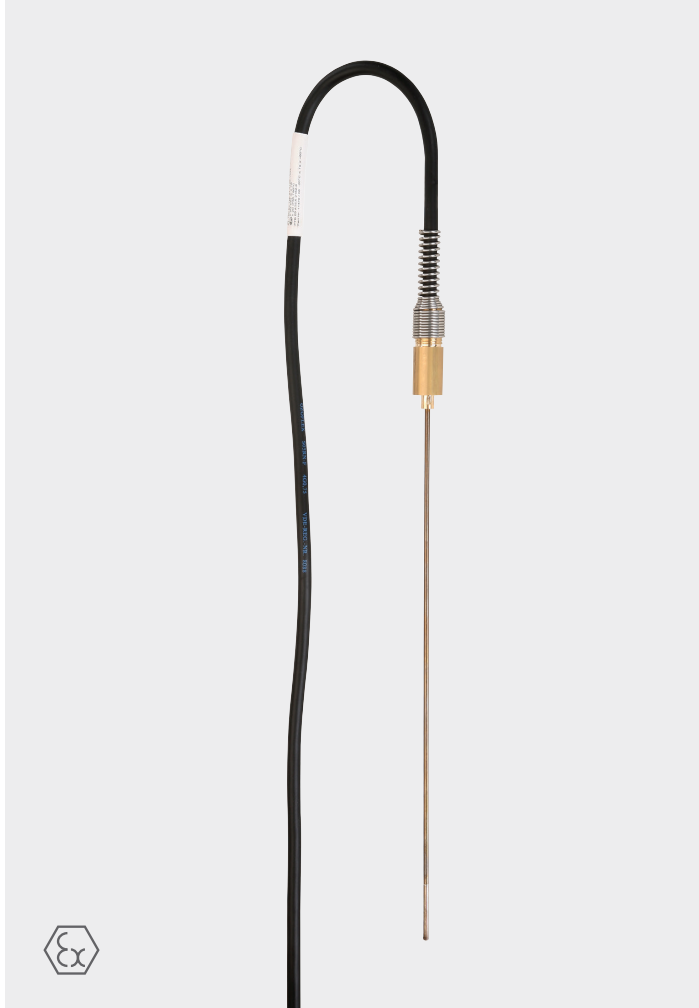


Pt100 Ex

Resistance thermometer



- Very fast response time
- Compact dimensions, compact design
- Wide temperature range
- Flexible supply cable

This Pt100 Ex sheathed resistance thermometer has been particularly designed for use in potentially explosive areas.

As it meets the requirements of the Ex m type of protection, intrinsically safe circuits can be dispensed with. Thanks to the pliable part of the resistance thermometer, the device is excellently suitable for application areas requiring a high degree of flexibility and replaceability (e.g. chemical and power plants).

The resistance thermometer is made of a 3 mm mineral insulated cable with different lengths. The flexible part of the resistance thermometer starts after 50 mm. The flexible part of the sensor probe is connected to the connecting cable via an Transition gland.

Explosion protection

Marking	Ⓜ II 2G Ex mb IIC T6 Gb Ⓜ II 2D Ex mb IIIC T80°C Db
Certification	PTB 03 ATEX 2152 X
Other approvals and certificates, see www.bartec.com	

Technical data

Wiring Configuration	3-wire
Temperature range	-50 °C to +600 °C or -200 °C to +600 °C tolerance: class B (EN 60751)
Ambient temperature range	-20 °C to +60 °C or -50 °C to +70 °C
Sheath material	stainless steel 1.4541
Connection cable	Rubber or silicone hose (4 x 0.75 mm ²)
Protection class	IP 65/EN 60529

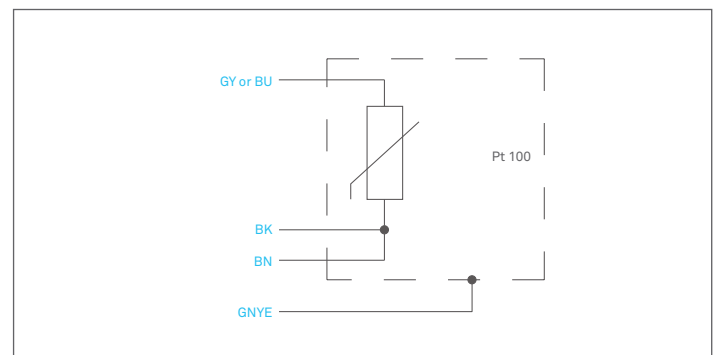
Dimensions

Sensor tube diameter	3 mm
Sensor length	280 resp. 980 mm
Active sensor length	50 mm
Flexible part	230 resp. 930 mm
Bending radius	min. 20 mm

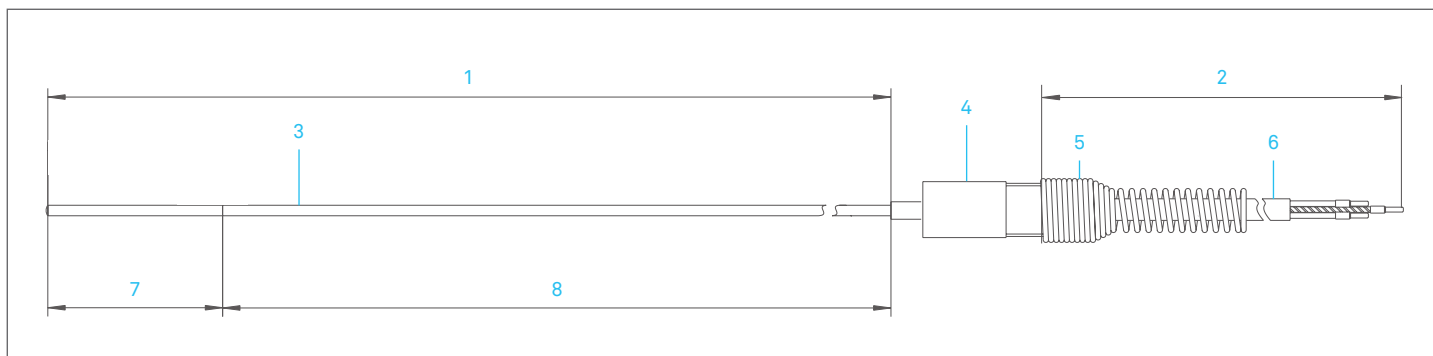
Electrical data

Operating voltage	max. AC/DC 60 V
Signal circuit	max. AC/DC 6 V max. AC/DC 10 mA max. AC/DC 60 mW

Electrical connection 3-wire



Structure



1	Nominal length
2	Connecting cable length
3	Sheathed cable
4	Transition gland
5	Anti-kink protection
6	Connection cable
7	Rigid 50mm
8	Flexible

Ordering information

Measurement range	Ambient temperature range	Nominal length	Connecting cable length	Connecting cable (Version)	Order no.
-50 °C to +600 °C	-20 °C to +60 °C	300 mm	2 m	rubber	27-7125-13330220
-50 °C to +600 °C	-20 °C to +60 °C	300 mm	5 m	rubber	27-7125-13330520
-200 °C to +600 °C	-20 °C to +60 °C	300 mm	2 m	rubber	27-7128-13330220
-50 °C to +600 °C	-50 °C to +70 °C	300 mm	2 m	silicone	27-7125-13330250
-50 °C to +600 °C	-50 °C to +70 °C	300 mm	5 m	silicone	27-7125-13330550
-200 °C to +600 °C	-50 °C to +70 °C	300 mm	2 m	silicone	27-7128-13330250
-200 °C to +600 °C	-50 °C to +70 °C	1000 mm	2 m	silicone	27-7128-13130250