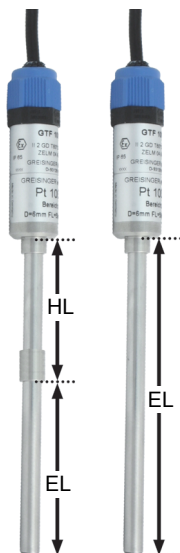


Product Information

Temperature probe

Ex Temperature Probe GTF 101-Ex



- For use in potentially explosive gaseous or dust mixtures
- Potential-free temperature probe made of stainless steel
- Assembled according to customer preferences

Characteristics

The temperature probe GTF 101-Ex is a mounting probe for usage in potentially explosive atmospheres. The modular build up ensures greatest flexibility and the possibility to fit it to the existing conditions. Therefore parameters like length, diameter, cable or type of protection ("i" or "e") can be adjusted.

There are 2 different sensor types available for the measuring unit of GTF 101-Ex: resistance thermometer Pt100, Pt1000 or thermocouple type K, type N (standard). Only sheathed resistance thermometer or sheathed thermocouple are used.

The probes can be customized according to customer requirements.

Technical data

Sensor element : Pt100, Pt1000 (sheathed element), 4-wire;
type K (NiCr-Ni) or type N (NiCrSi-NiSi) sheathed thermocouple

Measuring range
Pt100 / Pt1000 : -200...+100 °C (600 °C with neck tube)
Type K / type N : -200...+100 °C (900 °C with neck tube)

Accuracy
Pt100 / Pt1000 : DIN class B
Type K / type N : class 1
Type of protection : "i" intrinsic safe
"e" increased safety

Ambient temperature : -20...+60 °C (protection type "e")
-20...+80 °C (protection type "i")

Process connection	no process connection
Length of neck tube	no neck tube (for $T \leq 100\text{ °C}$) with neck tube (for $T > 100\text{ °C}$)
Electrical connection	silicone cable, standard length 1m
Mounting	by separate clamping ring screw connection
Suitable for potentially explosive atmospheres	zone1, zone 2, zone 21, zone 22

Dimensions

Head / capsule $\varnothing$ = approx. 15 mm, L = approx. 53 mm

Ordering code

GTF101-Ex 1. 2. 3. 4. 5. 6. - - - - -
7. 8. 9. 10. - - - - -

1. Sensor element	
P	Pt100
S	Pt1000
T	thermocouple type K
U	thermocouple type N
2. Neck tube	
K	no neck tube (for $T \leq 100\text{ °C}$)
M	with neck tube (for $T > 100\text{ °C}$)
3. Ambient temperature	
A	standard range -20...+60 °C
H	higher ambient temperature -20...+80 °C (only available in combination with protection type "i")
4. Length of neck tube HL	
xxx	length in mm (e.g. 050 = 50 mm)
5. Probe diameter D	
Dx	$\varnothing$ 3 mm, 4 mm, 5 mm, 6 mm, 8 mm (e.g. 8 = 8 mm) Note: $\varnothing$ 3 mm only for Pt100 / Pt1000 possible. • the min. length is then 60 mm. • the probe tip is $\varnothing$ 3 mm (for first approx. 30 mm) and then $\varnothing$ = 6 mm
6. Fitting length EL	
xxxx	length in mm (e.g. 0100 = 100 mm)
7. Cable length (4-wire)	
x	length in m (e.g. 1 = 1 m)
8. Type of protection	
e	increased safety due to potting of encapsulation
i	intrinsic safe
9. Potentially explosive atmospheres	
01	gaseous mixture, zone 1
02	gaseous mixture, zone 2
21	dust, zone 21
22	dust, zone 22
10. Measuring range	
xxx	desired measuring range (e.g. -50...+100 °C)