8 Ordering information

8.1 Ordering code for GTF 103-Ex-... probes

Ordering information for GTF 103-Ex ... Probes

GTF 103-Ex- [ ] [ ][ ] [ ] [ ] [ ][ ] [ ] [ ][ ][ ] [ ] [ ][ ][ ][ ] [ ][ ] / [ ]

Protection type:

e	Gas: increased safety, encapsulation (em) - only permitted for zone 1 and 2 Dust: encapsulation (mb) - only permitted for zone 21 and 22
i	intrinsic safety

Potentially explosive atmospheres:

Gases:		
00	zone 0	
0A	zone 0/1	Measuring circuit (probe tube) in zone 0 and connection head in zone 1
01	zone 1 and zone 2	
Dusts:		
20	zone 20	
2A	zone 20/21	Measuring circuit (probe tube) in zone 20 and connection head in zone 21
21	zone 21 and zone 22	

Normalized signal:

O	without normalizid signal output
G	with normalized signal output: 4-20 mA

Sensor-element:

P	Pt100
T	Pt1000
K	Thermocouple type K

Size of screw thread:

			Comment:
00	without thread		*not suitable for zone isolation !*
11	G 1/8"	G-screw thread	*not suitable for zone isolation !*
12	G 1/4"		*only with D = 6 mm suitable for zone isolation !*
13	G 3/8"		
14	G 1/2"		
15	G 3/4"		
22	M10x1	M-screw thread	*not suitable for zone isolation !*
23	M12x1.5		*only with D = 6 mm suitable for zone isolation !*
24	M14x1.5		
25	M16x1.5		
26	M18x1.5		

other threads (e.g. NPT) on request

Neck tube:

K	without neck tube (for T ≤ 100 °C)
M	with neck tube (for T > 100 °C - please refer to note below)
D	with neck tube Ø 14 mm (for T > 100 °C - please refer to note below)

Neck tube length:

xxx	length in mm e.g. 050 (= standard length)

Probe tube diameter:

x 3, 4, 5, 6 or 8 mm

Hint:
- for zone 0/1, 20/21 (= zone isolation) only 6 mm or 8 mm available
- observe for D = 3 mm:
  - minimum probe length is 60 mm
  - the probe diameter is reduced, tube top D = 3 mm (for approx. 30 mm) after this D = 6 mm
  - the measuring insert is not changeable

Probe length (fitting length):

xxxx	length in mm e.g. 0100 (= 100 mm)

Connection head and Cable gland:

1K	B-head with flap lid, cable entry via cable screw connection
1D	B-head with flap lid, cable entry via clamping screw
2K	B-head , cable entry via cable screw connection
2D	B-head, cable entry via clamping screw
3K	antistatic plastic head, cable entry via cable screw connection
3D	antistatic plastic head, cable entry via clamping screw

Notes: Types for zone 0 and 20 are only possible with the antistatic plastic head.
The plastic head are only suitable for protection type "i".

Measuring range:

xxx	measuring range of the probe *(necessary for type with outout signal)* e.g. -50 ... +100 °C

Notify for ambient temperature:

intrinsic safety type without output signal	
zone 0, 20:	-20 °C ... +60 °C
zone 0/1, 1, 2, 20/21, 21, 22:	-20 °C ... +80 °C
intrinsic safety type with 4-20 mA output signal	
zone 0, 20:	-20 °C ... +40 °C
zone 0/1, 1, 2, 20/21, 21, 22:	-20 °C ... +50 °C
type with increased safety	
zone 1, 2, 21, 22:	-20 °C ... +60 °C

Recommended min. neck tube length according max. meas. range:

Neck tube construction:	measuring range: Pt 100 a. type K	Pt 1000
- without neck tube	-200 ... +100 °C	-70 ... +100 °C
- neck tube above 50 mm	-200 ... +250 °C	-70 ... +250 °C
- neck tube above 100 mm	-200 ... +400 °C	-70 ... +400 °C
- neck tube above 200 mm	-200 ... +600 °C	-70 ... +600 °C

For reference only! The length should be selected so that the max. specified ambient temperature of the connection head is not exceeded in your installation situation.

Ordering example: **GTF 103-Ex** for protection type "i", Ex-zone 0, with 4-20 mA output signal, Pt100, thread: G 1/2", neck tube length: 50 mm, probe diameter: 6 mm, probe (fitting) length: 200 mm, B-head with flap lid, cable entry via cable screw connection, measuring range: -50 to +100 °C

GTF 103-Ex- [i] [0][0] [G] [P] [1][4] [M] [0][5][0] [6] [0][2][0][0] [K][P] / [-50 ... +100 °C]

All rights reserved!