



# Industrial temperature probes (ATEX 100)

For all potentially explosive atmospheres of the equipment-group II with the protection (i) or (e)

## GTF 101-Ex

-200°C ... +100°C (without neck tube)  
-200°C ... +900°C (with neck tube)

Readily assembled voltage free temperature probe of stainless steel with connection cable. The sensor inset is not exchangeable. Mounting is done via separate clamping ring fittings GKV.

without neck tube, for temperatures  $\leq 100^{\circ}\text{C}$



with neck tube, for temperatures  $> 100^{\circ}\text{C}$



**Sensors:** Pt100, Pt1000, mineral insulated element, 4-wire: meas. range: -200°C ... +100°C (600°C - with neck tube), DIN cl. B  
type K or N, mineral insulated thermocouple: meas. range: -200°C ... +100°C (900°C - with neck tube), class 1  
**Probe length:** up to 100mm (without upcharge) **upcharge per further starting 100mm**  
**Neck tube length:** without (without upcharge) **upcharge per starting 100mm**

**Probe diameter:** 3mm, 4mm, 5mm, 6mm or 8mm

**Cable:** silicone cable, standard length 1m

**upcharge per further starting m cable**

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

**Type of protection:** "i" : intrinsic safety (without upcharge) "e": increased safety

**Potentially explosive atmospheres:** suitable for zone 1, zone 2, zone 21, zone 22

**Clamping ring screw connection:** available at M8x1, M10x1, G1/4" and G1/2" for diameter 3mm, 6mm or 8mm. Please refer to page 136

To determine exact order name ask for our type list. Download via homepage possible (Products -->Ex-Protection-->Temperature probes).

## GTF 102-Ex

-200°C ... +100°C (without neck tube)  
-200°C ... +900°C (with neck tube)

Readily assembled voltage free temperature probe of stainless steel with connection cable. The sensor inset is not exchangeable. Thread is welded or brazed to the probe.

without neck tube, for temp.  $\leq 100^{\circ}\text{C}$



with neck tube, for temperatures  $> 100^{\circ}\text{C}$



**Sensors:** Pt100, Pt1000, mineral insulated element, 4-wire: meas. range: -200°C ... +100°C (600°C - with neck tube), DIN cl. B  
type K or N, mineral insulated thermocouple: meas. range: -200°C ... +100°C (900°C - with neck tube), class 1  
**Probe length:** up to 100mm (without upcharge) **upcharge per further starting 100mm**  
**Neck tube length:** without (without upcharge) **upcharge per starting 100mm**

**Probe diameter:** 3mm, 4mm, 5mm, 6mm or 8mm

**Thread:** G1/2" (standard)

G1/8", G1/4", G3/8", G3/4", M8x1, M10x1

**Cable:** silicone cable, standard length 1m

**upcharge per further starting m cable**

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

**Type of protection:** "i" : intrinsic safety (without upcharge) "e": increased safety

**Potentially explosive atmospheres:** suitable for zone 0/1, zone 1, zone 2, zone 20/21, 21, zone 22

To determine exact order name ask for our type list. Download via homepage possible (Products -->Ex-Protection-->Temperature probes).

## GTF 103-Ex

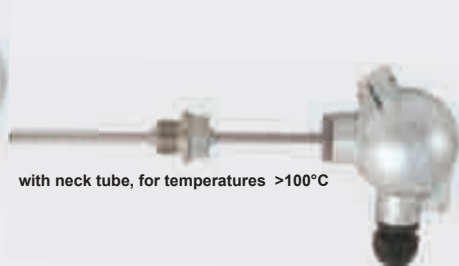
-200°C ... +100°C (without neck tube)  
-200°C ... +900°C (with neck tube)

Readily assembled voltage free temperature probe of stainless steel connection head and clamping block. The sensor inset is exchangeable. Thread is welded or brazed to the probe. Mounting is done via clamping ring fitting or thread welded / brazed to the probe tube. The connection head is also suitable to carry a head transmitter.

without neck tube, for temp.  $\leq 100^{\circ}\text{C}$



with neck tube, for temperatures  $> 100^{\circ}\text{C}$



**Sensors:** Pt100, Pt1000, mineral insulated element, 4-wire: meas. range: -200°C ... +100°C (600°C - with neck tube), DIN cl. B  
type K or N, mineral insulated thermocouple: meas. range: -200°C ... +100°C (900°C - with neck tube), class 1  
**Probe length:** up to 100mm (without upcharge) **upcharge per further starting 100 mm**  
**Neck tube length:** without (without upcharge) **upcharge per starting 100 mm**

**Probe diameter:** 3 mm (the sensor inset is **not** exchangeable)  
4 mm, 5 mm, 6 mm or 8 mm (the sensor inset exchangeable)

**Thread:** G1/2" (standard) or without thread

G1/8", G1/4", G3/8", G3/4", M8x1, M10x1

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

**Type of protection:** "i" : intrinsic safety (without upcharge) "e": increased safety

**Potentially explosive atmospheres:** suitable for zone 0, zone 1, zone 2, zone 20, zone 21, zone 22

**Transmitter:** GITT 01-Ex (please refer to page 105), output signal 4-20 mA, measuring range on customers demands protection type "i" intrinsic safety. For suitable active Ex-barrier please refer to page 106

**Clamping ring screw connection:** available at M8x1, M10x1, G1/4" and G1/2" for diameter 3 mm, 6 mm or 8 mm. Please refer to page 136

To determine exact order name ask for our type list. Download via homepage possible (Products -->Ex-Protection-->Temperature probes).