



Material sensor tube:  
for Pt100, Pt1000, NiCr-Ni „not flexible“ = material V4A  
for NiCr-Ni „flexible“ = Inconel 600

## GTF 103

basic design

## GTF 103 OS

without sensor and terminal

### Sensor:

#### Pt100 / Pt1000 (2-, 3- or 4-wire)

- -50 ... + 400 °C, DIN class B
- ±200 °C, DIN cl. B
- -50 ... + 600 °C, DIN class B, Jacket-Pt100

p.r.t. Probe Diameter

#### Double - Pt100 (2 x 2-wire)

others on request

- -50 ... + 400 °C, DIN class B
- ±200 °C, DIN class B
- Double jacket Pt100

#### NiCr-Ni (type K)

- -200 ... + 1150 °C, class 1, with jacket thermo element
- -200 ... + 1000 °C, V4A

#### Double - NiCr-Ni (type K)

- -200 ... + 1150 °C, class 1

### Sensor Head:

- **DIN B-head (Alu lacquered), max. 200°C**  
note: for higher temperatures order with neck tube
- **plastic sensor head**
- **stainless steel sensor head**
- **small sensor head**  
(design type DE) with PG9-cable glanding
- **with exchangeable measuring insert**

### Thread:

Note: other threads are not available for small series!  
(For larger series on request)

- **without thread**  
for interchangeable sensor application in combination with immersion sleeve EST01 or with stainless steel clamping ring glanding for exact adjustment of sensor position.
- **thread G $\frac{1}{2}$ " (V4A)**  
for fixed mounting or for interchangeable sensor in combination with immersion sleeve EST02.
- **thread G $\frac{1}{4}$ " , G $\frac{3}{8}$ " (V4A)**
- **other thread**

### Tube length (Pt100/1000 and NiCr-Ni):

- **Probe length „FL“ up to 100 mm**
- **Probe length per each started additional 100 mm**
- **Neck tube length „HL“ each started 100 mm**  
recommended for higher temperatures, because sensor head (without transmitter) is suitable just up to 200 °C or for bridging insulations.
- **Insertion spike**
- **Teflon coat (100 mm, Ø 1.5 / 3 / 4 / 5 / 6 / 8)**

### Probe diameter:

note: other diameters than stated below are not available!

#### Pt100 / Pt1000

- Ø 6 mm, not flexible
- Ø 3, 4, 5 or 8 mm, not flexible
- Ø reduced at the end (e.g. 8 to 3 mm)

#### Jacket - Pt100

- Ø 6 mm, approx. 40 mm stiff, then flexible
- Ø 3 mm, approx. 30 mm stiff, then flexible

#### NiCr-Ni (type K), not potential-free

- Ø 6 mm, not flexible
- Ø 3 mm, not flexible

#### NiCr-Ni (type K), jacket thermo element, potential-free

- Ø 6 mm, flexible
- Ø 1, 1.5 or 3 mm, flexible
- Ø 0.5 mm, flexible

### Special design types:

#### ... / RT420

with transducer for Pt100,  
Output signal 4-20 mA, working temperature -40 ... +85 °C,  
measuring ranges p.r.t. page 100 (to be stated on order!)

#### ... / T03 BU

with transducer for Pt100,  
Output signal 0-10 V, working temperature -40 ... +85 °C,  
measuring ranges p.r.t. page 99 (to be stated on order!)

#### ... / GITT

with electrically isolated transducer for Pt100/1000, NiCr-Ni,  
output signal 4-20 mA, working temperature -40 ... +85 °C,  
measuring range to be stated on order! (p.r.t. page 107)

customized products can only be ordered written and can generally not be exchanged!  
(Del. time from stock or 1 to 2 working days)