

# Temperature probes

## Accuracy:

**Pt100 / Pt1000:** sensor accuracy acc. to DIN EN 60751

**DIN cl. B:** (area of validity: -50 ... +500 °C) ±0,3°C at 0°C

**DIN cl. A:** (area of validity: -30 ... +300 °C) ±0,15°C at 0°C

**DIN cl. AA = 1/3 DIN cl. B:** (0 ... +150 °C) ±0,1°C at 0°C

**1/10 DIN Kl. B:** ±0,03°C at 0°C

**Thermocouples:** sensor accuracy acc. to DIN EN 60584-2

**class 1 für Typ K:** ±1,5°C at range -40...+375°C

**class 1 für Typ N:** ±1,5°C at range -40...+375°C

**class 1 für Typ S:** ±1°C at range 0...1100°C

## Special designs (Upcharges):

basic fee for custom made probe

longer probe tube

longer cable (silicone)

other cable material

teflon covered probe tube (for probes up to 200 mm)

(for probes used in acids and salt water, upper temperature range 250 °C)

waterproof probe handle (casted, only possible with PVC cable -20 ... +105 °C)

higher sensor accuracy: 1/3 DIN Kl. B,

for Pt100 and Pt1000,

tolerances: 0,1°C at 0°C

higher sensor accuracy: 1/10 DIN Kl. B,

for Pt100-probes,

tolerances: 0,03°C at 0°C

upcharge per further starting 100 mm


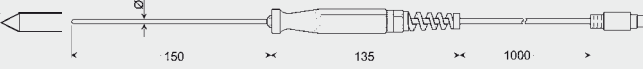
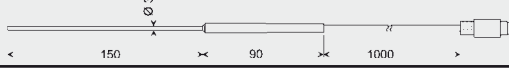
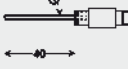
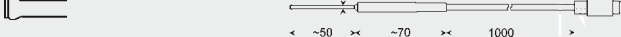
upcharge per further starting meter

upcharge per meter **please refer to cable pricing p. 135**

## Please note:

**customized probes have to be ordered in writing!  
return or exchange are not possible!**

## Pt100 Measuring probe

| Ordering type<br>Range / DIN Class   | Application / Dimensions (mm)<br>techn. specification  | Response<br>time T <sub>90</sub> | suitable<br>for                              | Price |
|--|--|----------------------------------|--|-------|
| <b>GTF 401</b><br>-50 ... +400°C<br>DIN cl. B<br><br><b>GTF 401 1/3 DIN *</b><br>-50 ... +400°C<br><br><b>GTF 401 1/10 DIN *</b><br>-50 ... +400°C | <b>Immersion probe for liquids / gases</b><br>non-corrosive stainless steel tube (V4A), plastic handle, approx. 1 m<br>4-wire PVC cable, anti-buckling glanding, 4-pin miniature DIN-type plug<br><br><br>as GTF401 however 1/3 DIN class B (±0,1°C at 0°C)<br><br>as GTF401 however 1/10 DIN class B (±0,03°C at 0°C) and<br>flexible jacket tube, Ø 3mm                                    | approx.<br>10 sec.               | GMH2000(SA)<br>GMH35xx<br>GMH3710<br>GMH3750 |       |
| <b>GES 401</b><br>-50 ... +400°C<br>DIN cl. B<br><br><b>GES 401 1/3 DIN *</b><br>-50 ... +600°C  | <b>Insertion probe for soft media</b><br>Specification as for GTF401 but with needle type prod<br><br><br>as GES401 however 1/3 DIN class B (±0,1°C at 0°C)  | approx.<br>10 sec.               | GMH2000(SA)<br>GMH35xx<br>GMH3710<br>GMH3750 |       |
| <b>GTF 601</b><br>-200 ... +600°C<br>DIN cl. B<br><br><b>GTF 601 1/3 DIN *</b><br>-200 ... +600°C  | <b>Immersion probe for liquids / gases, 4-wire</b><br>handle as per GTF150, approx. 1 m 4-wire PVC cable,<br>4-pin miniature DIN-type plug, flexible jacket tube, 3mm Ø.<br>(smaller tube diameter upon request)<br><br>as GTF601 however 1/3 DIN class B (±0,1°C at 0°C)  | approx.<br>10 sec.               | GMH2000(SA)<br>GMH35xx<br>GMH3710<br>GMH3750 |       |
| <b>GTF 35</b><br>-50 ... +400°C<br>DIN cl. B   | <b>Immersion probe for liquids / gases, 4-wire</b><br>non-corrosive stainless steel tube (V4A), approx. 1 m 4-wire<br>PVC cable, 4-pin miniature DIN-type plug<br><br>   | approx.<br>10 sec.               | GMH35xx<br>GMH3710<br>GMH3750                |       |
| <b>GLF 401 Mini</b><br>-25 ... +70°C<br>DIN cl. A<br><br><b>GOF 401 Mini</b><br>-50 ... +200°C<br>DIN cl. B  | <b>Fast and accurate Measurement of ambient air</b><br>Ø 1,6 mm, FL = ca. 40 mm, 4-pin mini. DIN-type plug<br><br><br><br><b>Surface probe for solid surfaces, fast</b><br>2 x 2.3 mm ceramic Pt1000 sensor mounted at the tip, V4A tube,<br>4-wire PVC cable with 4-pin miniature DIN-type plug<br><br> | approx.<br>15 sec.               | GMH35xx<br>GMH3710<br>GMH3750                |       |

\* Please note the area of validity for the class of accuracy given above.