

# 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

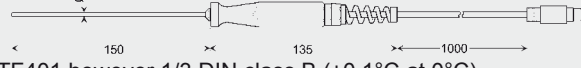
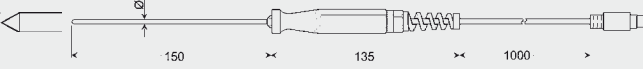
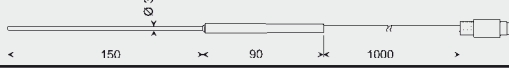
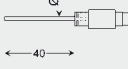
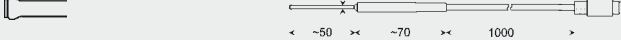
upcharge per meter

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

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