

INDUSTRIAL PROBES FOR FOOD-, BEVERAGE- AND PHARMA INDUSTRY



GTL ...

Probes according to customer specification

Specifications:	
<b>Measuring ranges:</b>	-40 ... +200 °C (depending on probe construction)
<b>Sensor:</b>	Pt 100
<b>Process connection:</b>	M12 / G1/2" / without thread
<b>Probe head:</b>	probe head Ø 59 mm probe head Ø 18 mm Long (with transmitter) probe head Ø 18 mm Short (without transmitter)
<b>Material:</b>	sensor head: V2A, protection tube and peak: V4A
<b>Probe length:</b>	50, 100, 150, 250 or according to customer specification (in mm)
<b>Diameter:</b>	Ø 6 mm without contraction Ø 4 mm without contraction Ø 6 mm with offset probe peak Ø 3 mm
<b>Response Time:</b>	Ø 6 mm: $T_{90} \leq 7.4$ s Ø 4 mm: $T_{90} \leq 3.6$ s Ø 3 mm: $T_{90} \leq 1.5$ s
<b>Protection rating:</b>	IP69K / IP67
Option:	

- Neck tube
- Electr. connection: fixed cable (PG) or M12-plug
- Transmitter
- Higher accuracy (DIN cl. AA or 1/10 DIN cl. B)
- Display of temperature

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TYPE N (NICRSI-NISI) - MEASURING PROBE (CLASS 1)



HIGH TEMPERATURES COST-EFFICIENT MEASUREMENTS

GTF101-N-03-250

Art. no. 602770  
 Temperature probe NiCrSi Type N, -50 ... +1300 °C, (short-term up to 1330 °C), FL = 250 mm

GTF101-N-03-500

Art. no. 602771  
 Temperature probe NiCrSi Type N as above, but FL = 500 mm

GTF101-N-03-1000

Art. no. 602772  
 Temperature probe NiCrSi Type N as above, but FL = 1000 mm

General:

**Measuring probe Ø 3 mm**  
**Mantle material:** nickel-chromium-based stainless steel with extraordinary resistivity against oxidation at high temperatures and excellent corrosion resistance in chlorine and ammoniacal environments. A protective layer emerges at temperatures of approx. 980 °C and provides improved accuracy compared to other mantle materials. The temperature can be applied to high temperatures for a longer period without noteworthy drift. The K-effect (near-order effect) is much smaller for type N thermocouples than for type K thermocouples.

Application:

Temperature measurement of exhaust fumes

Specifications:

<b>Response time <math>T_{90}</math>:</b>	approx. 5 s
<b>Probe tube:</b>	nickel-chromium-based stainless steel Ø 3 mm
<b>Cable:</b>	1 m silicone cable, loose ends

further cable lengths upon request



HIGH TEMPERATURES (PERMANENTLY UP TO 1300 °C) COST-EFFICIENT MEASUREMENTS

GTF101-N-06-250

Art. no. 602769  
 Temperature probe NiCrSi Type N, -50 ... +1300 °C, (short-term up to 1330 °C), FL = 250 mm; more robust design with thicker protective cover

GTF101-N-06-500

Art. no. 607634  
 Temperature probe NiCrSi Type N as above, but FL = 500 mm

GTF101-N-06-1000

Art. no. 607635  
 Temperature probe NiCrSi Type N as above, but FL = 1000 mm

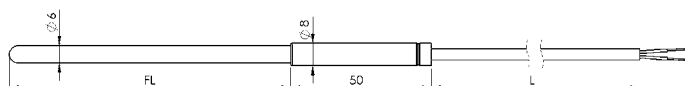
General:

**Measuring probe Ø 6 mm**  
 Probe for permanently high temperatures, other data as probe Ø 3 mm

Specifications:

<b>Response time <math>T_{90}</math>:</b>	approx. 10 s
<b>Probe tube:</b>	nickel-chromium-based stainless steel Ø 6 mm
<b>Cable:</b>	1 m silicone cable, loose ends

further cable lengths upon request



Note: Handheld instrument probes can be found in chapter handheld instruments and the appropriate devices