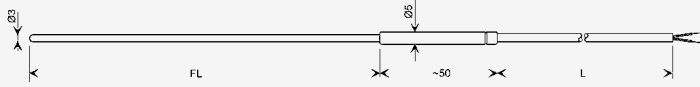


NiCrSi-NiSi (type N) - measuring probe (class 1)

HIGH TEMPERATURES  
COST-EFFICIENT MEASUREMENTS



**GTF101-N03250**

-50 ... +1300 °C, (short-term up to 1330 °C), FL=250 mm

**GTF101-N03500**

as above, but FL = 500 mm

**GTF101-N031000**

as above, but FL = 1000 mm

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

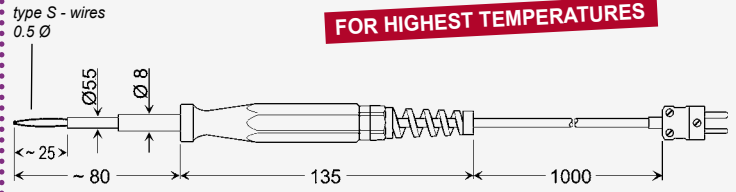
**Specifications:**

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

Surcharge for arbitrary cable length

Pt10Rh-Pt (type S) - measuring probe (class 1)

FOR HIGHEST TEMPERATURES



**GBF 1550**

+50 ... +1550 °C

Bunsen burner probe

Probe tip may be directly exposed to the flame.

**Specifications:**

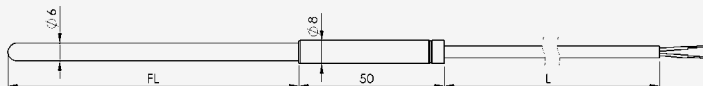
Response time $T_{90}$ :	approx. 2 s
Probe tube:	V4A tube Ø 8 mm, with reduced ceramic tube Ø 5.5 mm, plastic handle
Cable:	silicone cable
Connection:	thermoelectric-free flat-pin plug type „S“

Limit deviations for thermocouples DIN EN 60584-2 or IEC 60584 part 2

class 1

	Deviation	temperature range
Type T (Cu-CuNi)	$\pm 0.5 \text{ } ^\circ\text{C}$	-40 ... +125 °C
	$\pm 0.004 * [t]$	+125 ... 350 °C
Type E (NiCr-CuNi)	$\pm 1.5 \text{ } ^\circ\text{C}$	-40 ... +375 °C
	$\pm 0.004 * [t]$	+375 ... +800 °C
Type J (Fe-CuNi)	$\pm 1.5 \text{ } ^\circ\text{C}$	-40 ... +375 °C
	$\pm 0.004 * [t]$	+375 ... +750 °C
Type K (NiCr-Ni)	$\pm 1.5 \text{ } ^\circ\text{C}$	-40 ... +375 °C
	$\pm 0.004 * [t]$	+375 ... +1000 °C
Type N (NiCrSi-NiSi)	$\pm 1.5 \text{ } ^\circ\text{C}$	-40 ... +375 °C
	$\pm 0.004 * [t]$	+375 ... +1000 °C
Type S (Pt10%Rh-Pt)	$\pm 1 \text{ } ^\circ\text{C}$	0 ... +1100 °C
	$\pm [1 + 0.003 * (t - 1100)] \text{ } ^\circ\text{C}$	+1100 ... +1600 °C
Type R (Pt13%Rh-Pt)	$\pm 1 \text{ } ^\circ\text{C}$	0 ... +1100 °C
	$\pm [1 + 0.003 * (t - 1100)] \text{ } ^\circ\text{C}$	+1100 ... +1600 °C

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



**GTF101-N06250**

-50 ... +1300 °C, (short-term up to 1330 °C), FL = 250 mm; more robust design with thicker protective cover

**GTF101-N06500**

as above, but FL = 500 mm

**GTF101-N061000**

as above, but FL = 1000 mm

Probe Ø 6 mm

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

**Specifications:**

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

Surcharge for arbitrary cable length

additional probes (type N) see pages 131/132