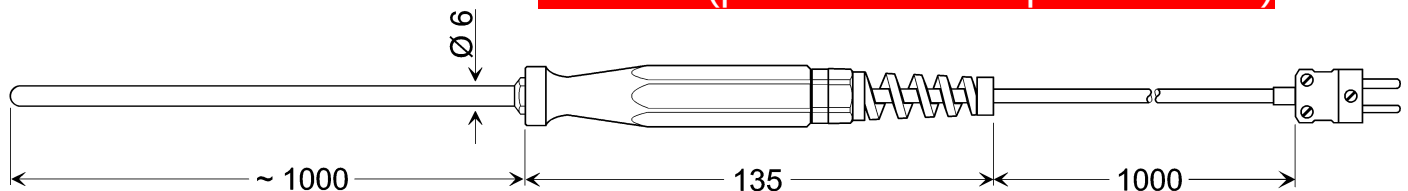


GTF 1000 AL immersion sensor with sheath thermocouple for use in aluminium smelters, etc.

Data Sheet

Handle usable up to 100 °C, cable up to +200 °C (please refer to specifications)



The GTF 1000 AL is an economical sensor for short-term use in aluminum smelters as a cost-effective and break-resistant alternative to expensive and sensitive ceramic sensors.

NOTE ON USE:

The reinforced protective covering is attacked by the melt and thus degrades. In case of frequent or longer measurements, the sensor is to be considered as a wearing part.

The operational life of the reinforced protective cover can be extended by using common mould release agents (e.g. Metalstar TOP 211).

The silicone cable is optionally equipped with loose ends or type-K DIN miniature flat plugs.

Specifications

Sensor element:	Type K Thermocouple, potential-free
Accuracy:	Class 1 (see below)
Measuring range:	-200 ... +1000 °C
	Observe application area of sensor handle!
Sensor tube:	1.4404 (V4A) Ø6 mm (1.4 mm reinforced wall)
Sensor length:	standard 1 m
Sensor handle:	PA, glass fibre reinforced (max. 100 °C)
Cable:	standard 1 m silicone (max. +200 °C)
Connection:	DIN miniature flat plugs / loose ends with ferrules
Response time T_{90} :	water 0.4 m/s approx. 30 s
Protection class:	IP67, except plug

Accuracy (derived from EN 60584-1:2014-07):

class	Tolerance values	Temperature range of validity
1	$\pm 1.5^{\circ}\text{C}$	$-40 \dots +375^{\circ}\text{C}$
	$\pm 0.004 \times t $	$+375 \dots +1000^{\circ}\text{C}$

Variants / Ordering code:

GTF1000AL-[1]-[2]-[3]

Immersion probe, sheathed thermocouple for aluminum smelting etc.

1 Connection

-	NST1200 miniature flat pin plug, standard
LE	Loose ends with ferrules

2 Probe length

250	250 mm
500	500 mm
750	750 mm
-	1000 mm, standard
1200	1200 mm
1480	1480 mm
1500	1500 mm
2000	2000 mm

3 Cable and length

	1 m silicone cable, standard
L02	2 m silicone cable
L01.2SK	Spiral cable stretchable to 1.2 m

Directives and standards:

The handle-probe confirm to following European Directives:

2011/65/EU RoHS

Applied harmonized standards:

EN IEC 63000:2018

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