

SHEATHED RESISTANCE THERMOMETER

AI.ASPT-stelo

APPLICATION:

The sheathed resistance thermometer models TPtMiL, TPtMiD and TPtMiSL consist of a temperature sensor, made of sheathed, mineral insulated cable, and a connection cable and/or plug connector. They are versatile for temperature measurements.

For all models, we offer various measuring resistors according to DIN EN 60 751, plug connectors as well as connection cables.

STANDARD VERSIONS:

Version

TPtMiL:	with connection cable
TPtMiD:	with connecting wires
TPtMiSL:	plug connector LEMO series S

Measuring Element

Platinum thin-film measuring resistor Pt100 according to DIN EN 60 751 in 2-, 3- or 4-wire connection as single or dual measuring resistor

Operating Temperature Range¹⁾

-200 °C to +600 °C (-328 °F to +1112 °F)

Ambient Temperature Ranges²⁾

Models TPtMiL, TPtMiD: -40 °C to +120 °C (-40 °F to +248 °F)

Model TPtMiSL: -55 °C to +200 °C (-67 °F to +392 °F)

Accuracy

Class AA, A or B according to DIN EN 60 751

Temperature Sensor

Made of sheathed, mineral insulated cable

Sheath material: stainless steel 316L (1.4404)

Insulation: MgO

Diameter (dF): $3^{\pm 0.05}$ or $6^{\pm 0.06}$ mm ($0.12^{\pm 0.002}$ or $0.24^{\pm 0.0024}$ ")

Min. bending radius³⁾: 5-fold diameter (dF)

Spring travel: approximately 7 mm (0.28")

SPECIAL VERSIONS:

- Measuring insert diameter 4.5 or 8 mm (0.18 or 0.31")
- Other basic values (e.g. Pt500, Pt1000) and limited tolerances (e.g. 1/3 cl. B, 1/5 cl. B)
- Measuring resistor wire-wound in ceramic -200 °C to +800 °C (-328 °F to +1472 °F)
- Other connection cables
- Special sheath materials



Le caratteristiche dichiarate possono cambiare senza alcun preavviso

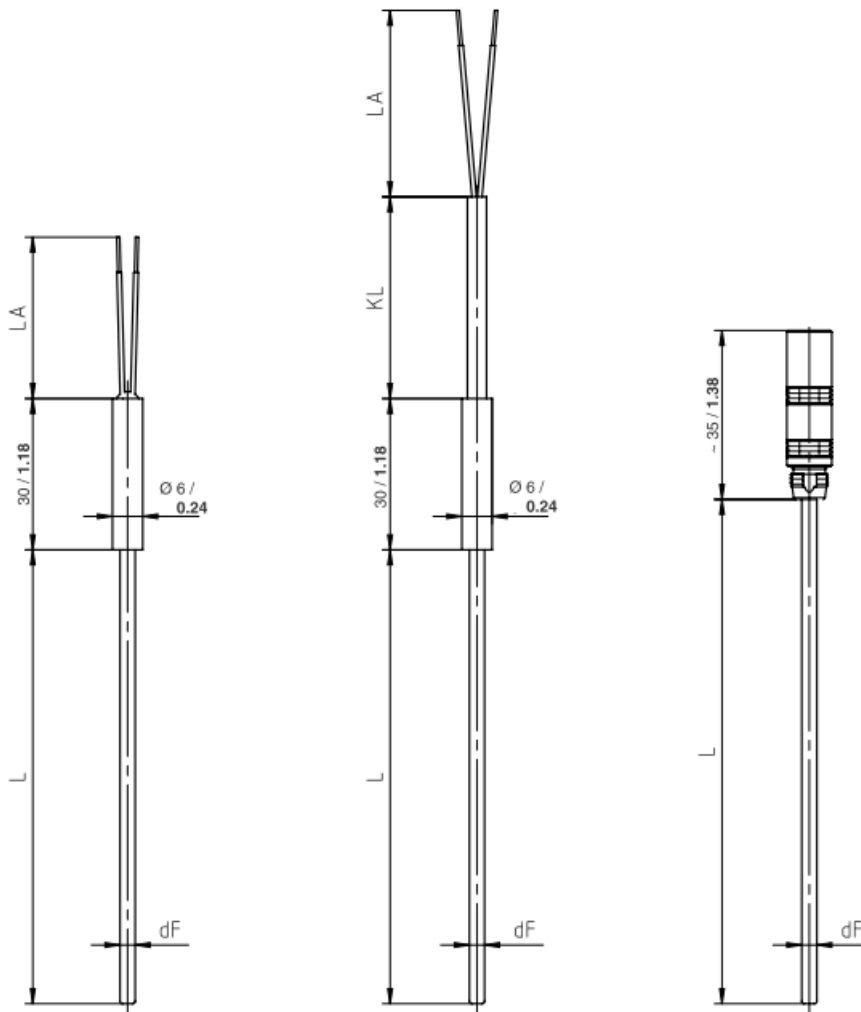


Per ordini:
Tel.: +39 011 198 218 39
E-mail: commerciale@asit-ge.com

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DIMENSIONAL DATA:



CONNECTION CABLE:

Material	Temperature range
PFA	-200 / +250 °C (-328 / +482 °F)
silicone	-50 / +180 °C (-58 / +356 °F)

Degree of Protection (DIN EN 60 529)
IP65

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ORDERING INFORMATION:

Basic Model:	Sheathed Resistance Thermometer	TPtMI
Version:	with connection cable	L
	with connecting wires	D
	with plug connector LEMO series S	SL
Measuring resistor:	Pt100 DIN EN 60 751, class AA	AA
	Pt100 DIN EN 60 751, class A	A
	Pt100 DIN EN 60 751, class B	B
No. of measuring resistors:	1	1
	2 ¹⁾	2
Switching type:	2-wire connection ²⁾	2L
	3-wire connection	3L
	4-wire connection ¹⁾	4L
Sheath Ø dF:	3.0 mm (0.12")	dF = 3 mm
	6.0 mm (0.24")	dF = 6 mm
Sheath length:	L in mm	e.g. L = 250 mm
Length of the connection cable:	KL in mm	e.g. KL = 5000 mm
Length of the connecting wires:	LA in mm	e.g. LA = 50 mm
Connection cable termination:	free connecting wires	D
	with plug connector LEMO series S	SL
	with plug connector according to DIN EN 50 212	ST
Size of the plug connector:	size 0 ³⁾	0
	size 1 ³⁾	1
	size 2 ³⁾	2
Gender of the plug connector:	male, plug	M
	female, coupling	F

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ASIT ITALIA S.r.l.

Sede operativa e Uffici

Via Quintino Sella, 6 - 10020 Riva presso Chieri (TO)

T +39 011 198 218 39 - F +39 011 198 371 06

<http://www.asit-ge.com> - info@asit-ge.com

