

CABLE RESISTANCE THERMOMETER

Type XI-TOPE570

Resistance thermometers XI-TOPE570 are designed for self-tapping screw assembly to air ducts and air conditioning systems.

The sensor consists of thermometric resistor, protection tube with mounting flange and cable.

Insertion length, construction type, number of sensors, accuracy, cable insulation and method of connection can be selected individually for the respective application.

TECHNICAL DATA

Description

- Intrinsically safe for mines MI, gas G and dust D atmospheres
- Single and double RTD
- Process connection: flange with two holes $\varnothing 3.7$ mm

Design temperature range

-10.. +105°C	with cable in PVC
-50.. +180°C	with cable in silicone rubber
-50.. +260°C	with cable in teflon® PFA
-50.. +400°C	with cable in fiberglass

Sensing element

1x or 2xPt100	Class A or B, acc. to PN-EN 60751
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Protection tube

Material	stainless steel 1.4541**
Diameter [mm]	$\varnothing 3, \varnothing 4, \varnothing 5, \varnothing 6, \varnothing 8$ **
Length L [mm]	custom

Connection cable

JJ	PVC / PVC (up to +105°C)
SLSL	silicone / silicone (up to +180°C)
TSL	teflon® / silicone (up to +180°C)
TPSL	teflon® / Cu braid / silicone (up to +180°C)
TT	teflon® PFA / teflon® PFA (up to +260°C)
TP	teflon® PFA / steel braid (up to +260°C)
TCuT	teflon® PFA / Cu braid / teflon® PFA (up to +260°C)
GLGLP	fiberglass / fiberglass / steel braid (up to +400°C)

Remarks

- * Pt500, Pt1000, Ni100, Ni1000
- ** other parameters upon request

ATEX Marking:

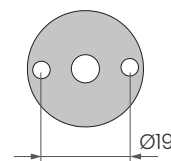
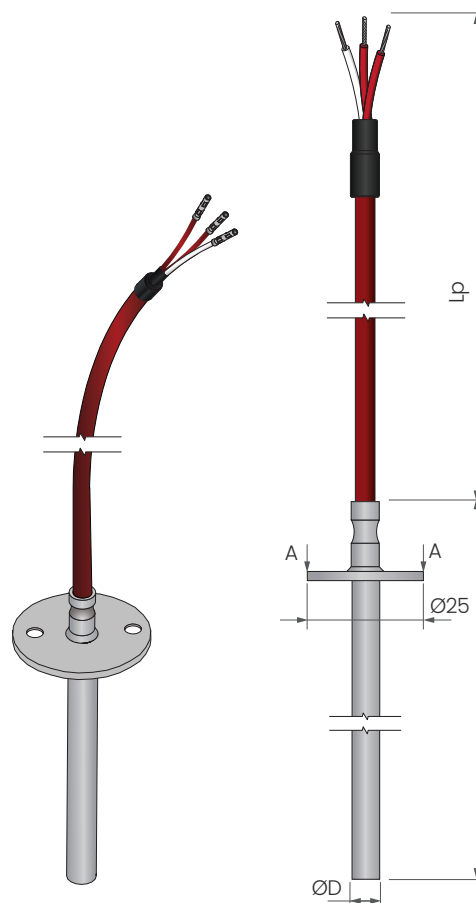
- CE I MI Ex ia I Ma
- CE II 1/2 G Ex ia II C T... Ga/Gb
- CE II 1/2 D Ex ia IIIC T... Da/Db

IECEx Marking:

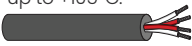







- Ex ia I Ma,
- Ex ia IIC T ...Ga
- Ex ia IIIC T ...Da

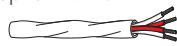







EAC Ex Marking:

- PO Ex ia I Ma X
- 0Ex ia IIC T...Ga X
- 0Ex ia IIIC T...Da X



List of available connection cables.

Connection cable	cross	diameter	code
up to +105°C. 			
PVC / PVC	4 x 0.22 mm ²	Ø4.4	JJ-4x0.22mm ²
up to +180°C. 			
silicone / silicone	3 x 0.22 mm ²	Ø3.4	SLSL-3x0.22mm ²
up to +180°C. 			
teflon® FEP / silicone	2 x 0.22 mm ² 3 x 0.22 mm ² 4 x 0.22 mm ² 6 x 0.22 mm ² 8 x 0.22 mm ²	Ø4.2 Ø3.8 Ø3.8 Ø4.4 Ø5.0	TSL-2x0.22mm ² TSL-3x0.22mm ² TSL-4x0.22mm ² TSL-6x0.22mm ² TSL-8x0.22mm ²
up to +180°C. 			
teflon® FEP / Cu braid / silicone	3 x 0.22 mm ² 4 x 0.22 mm ² 6 x 0.22 mm ² 8 x 0.22 mm ²	Ø3.9 Ø4.0 Ø4.2 Ø4.4	TPSL-3x0.22mm ² TPSL-4x0.22mm ² TPSL-6x0.22mm ² TPSL-8x0.22mm ²

Connection cable	cross	diameter	code
up to +260°C. 			
teflon® PFA / teflon® PFA	2 x 0.22 mm ² 3 x 0.22 mm ² 4 x 0.22 mm ²	Ø2.5 Ø2.6 Ø2.6	TT-2x0.22mm ² TT-3x0.22mm ² TT-4x0.22mm ²
up to +260°C. 			
teflon® PFA / steel braid	3 x 0.05 mm ² 3 x 0.50 mm ² 4 x 0.05 mm ² 4 x 0.22 mm ²	Ø1.7 Ø3.5 Ø2.0 Ø3.6	TP-3x0.05mm ² TP-3x0.50mm ² TP-4x0.05mm ² TP-4x0.22mm ²
up to +260°C. 			
teflon® PFA / Cu braid / teflon® PFA	3 x 0.22 mm ² 4 x 0.22 mm ² 6 x 0.22 mm ² 8 x 0.22 mm ² 6 x 0.05 mm ² 8 x 0.05 mm ²	Ø3.1 Ø3.9 Ø4.1 Ø4.6 Ø2.6 Ø3.0	TCuT-3x0.22 mm ² TCuT-4x0.22 mm ² TCuT-6x0.22 mm ² TCuT-8x0.22 mm ² TCuT-6x0.05 mm ² TCuT-8x0.05 mm ²
up to +400°C. 			
fiberglass / fiberglass / steel braid	4 x 0.22 mm ² 6 x 0.22 mm ²	Ø3.8 Ø5.0	GLGLP-4x0.22 mm ² GLGLP-6x0.22 mm ²

ORDERING CODE

Temperature sensor	XI - TOPE570 - [] - [] - [] - [] - [] - [] - []						
sensing element:	1xPt100 <input type="checkbox"/>	2xPt100 <input type="checkbox"/>	1xPt500 <input type="checkbox"/>	1xPt1000 <input type="checkbox"/>			
diameter [mm]:	3, 4, 5, 6 or other*			<input type="checkbox"/>			
length L [mm]:	custom			<input type="checkbox"/>			
cable length Lp [mm]:	custom			<input type="checkbox"/>			
RTD class:	A, B			<input type="checkbox"/>			
connection line:	2-, 3-, 4-wire for 1xP t100;		2-, 3-wire for 2x Pt100		1x <input type="checkbox"/>	2x <input type="checkbox"/>	
cable insulation	(see specification)			<input type="checkbox"/>			

EXAMPLE: Temperature sensor XI-TOPE570-1xPt100-4-100-1500-A-4-TT

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Temperature sensor XI-TOPE570-1xPt100-6-50-3000-A-3-SLSL

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