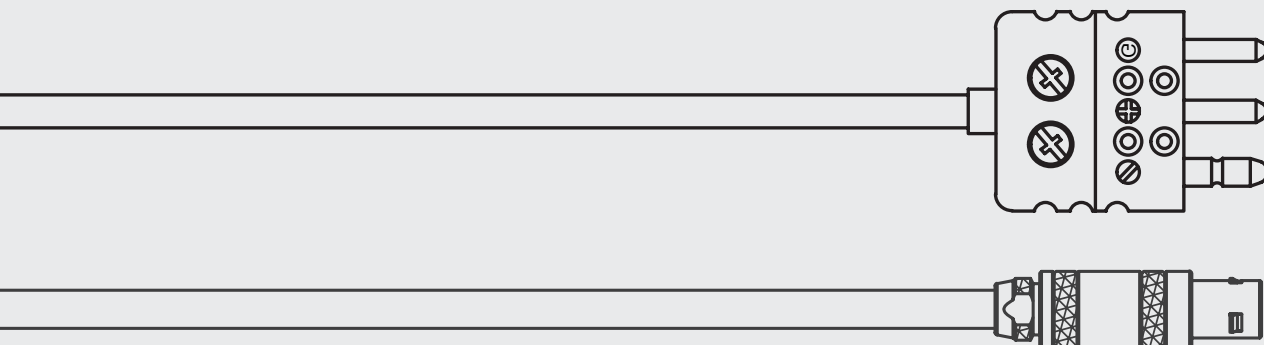# Industrial resistance thermometer

CONNECTOR

PMA-PNA-PPA-PPB
CONFIGURATIONS
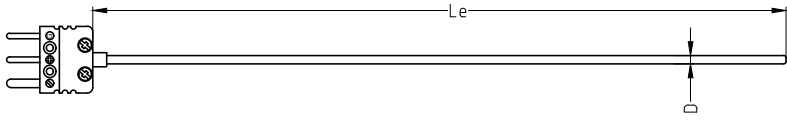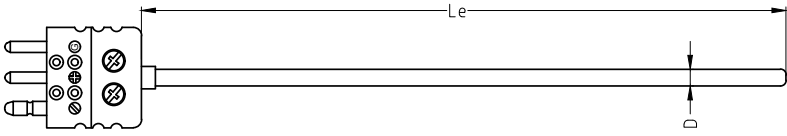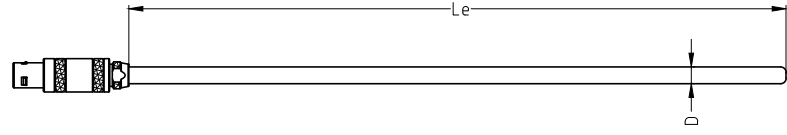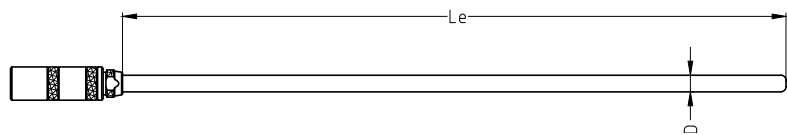
General use RTD

RODAX°
new temperature solutions

	Terminal	
PMA	Miniature flat pin connector	
PNA	Round pin connector	
PPA0, PPA1, PPA2, PPA3	Male push-pull self-latching connector (Lemo® mod S with Cu pins and size 0, 1, 2 or 3)	
PPB0, PPB1, PPB2, PPB3	Female push-pull self-latching connector (Lemo® mod S with Cu pins and size 0, 1, 2 or 3)	

Features assembly

High quality resistance temperature element with MgO mineral insulated metal sheathed cable, providing excellent stability and reproducibility.

The unique properties make this basic element ideally suited for a wide range of applications up to 550 °C.

The PT100 is bendable over the total length except on the tip over 50 mm.
High vibration resistant models are available.

Table 2: Measuring inserts details

Details

- Maximum temperature: 550 °C
- Minimum insulation resistance: 1000 MOhm at 500VDC, T_{amb}=20 °C
- Conductors: material Cu
- Metal sheath: SS321 / 1.4541

PT100 element

S	D	Option	HV
Single	Double		High vibration

Diameter ØD

D3	D3,2	D4,5	D4,8	D6	D6,35	Other diameters on request
3,0 mm	3,2 mm	4,5 mm	4,8 mm	6,0 mm	6,35 mm	

Electrical connection

W2	W3	W4 (*)	(*) for OD 3 mm: dual sensors max 2x3 wire
2 wire	3 wire	4 wire	

Accuracy

A1	A3	A5	A6	A10	Other accuracies on request
Class A IEC EN 60751 ±(0.15+0.002|t|)°C	1/3 DIN 1/3 class B	1/5 DIN 1/5 class B	1/6 DIN 1/6 class B	1/10 DIN 1/10 class B	

Temperature rating connector

Sensor main model	ST	HT	UT	KE
PMA/PNA	200 °C	350 °C	425 °C	650 °C
PPA/PPB	250 °C	NA	NA	NA

Accessories

Sensor main model	24MCF	24MCW	24SCF	24SCW	24SOM	24SOF
PMA/PNA	Counter plug female miniature connector	Wire bracket in SS for miniature connector	Counter plug female standard connector	Wire bracket in SS for miniature connector	NA	NA
PPA/PPB	NA	NA	NA	NA	Lemo® S series male connector	Lemo® S series female connector

Table 4: Certification possibilities

Certificates

Following tests and certificates are possible and are either done in-house or done by an external party.

Code	Certificates
Q04210	Functional test report sensor
Q04230	Calibration report (measuring points to be indicated) E.g. 0/100 °C
Q05220	Calibration report by accredited calibration lab retraceable (measuring points to be indicated)
Q05230	Calibration report by accredited calibration lab ISO/IEC 17025 (BELAC) (measuring points to be indicated)
Q02040	Test report EN10204-2.2

Code		Example	Your code
Main model	See table 1	PPA1	
Pt100 element	See table 2	S	
Diameter ØD	See table 2	D6	
Electrical connection	See table 2	W3	
Accuracy	See table 2	A1	
Temperature rating connector	See table 2	ST	
Additional accessories	See table 3		
Insertion length Le	In mm	Le150	

0rdering code example:
PPA1 S D6 W3 A1 ST Le150

For all options: please contact Rodax

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PM-Gen-RTD GB 201901