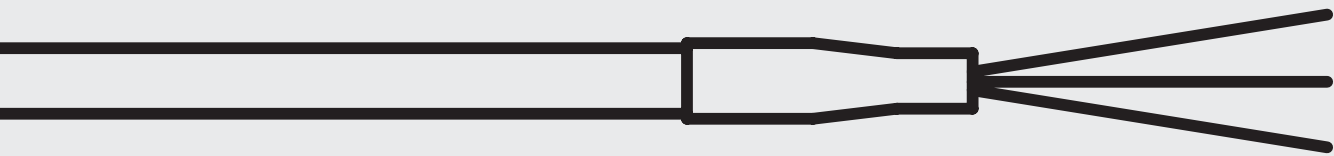


# Industrial resistance thermometer Autoclave application

WIRE & TRANSITION

**PQA-PQB**  
CONFIGURATIONS

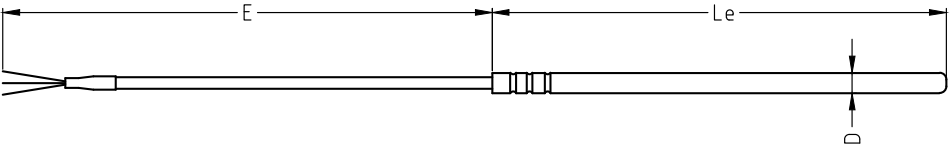
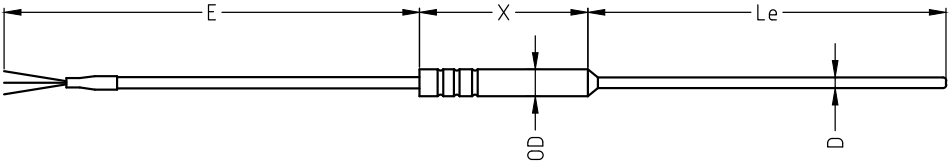
**General use RTD**



**RODAX**<sup>®</sup>  
new temperature solutions

Product series PT100WA

**Table 1: Measuring inserts main models**

<p><b>PQA</b></p>	 <p>The diagram shows a side view of a measuring insert. It has a tapered tip on the left. A dimension line labeled 'E' spans from the tip to the start of a central cylindrical section. A second dimension line labeled 'Le' spans from the start of this section to the right end of the device. A vertical dimension line labeled 'D' indicates the diameter of the main body.</p>
<p><b>PQB</b></p>	 <p>The diagram shows a side view of a measuring insert with a more complex central section. It has a tapered tip on the left. A dimension line labeled 'E' spans from the tip to the start of a cylindrical section. A second dimension line labeled 'X' spans across the central section. A third dimension line labeled 'Le' spans from the end of the 'X' section to the right end of the device. A vertical dimension line labeled 'OD' indicates the outer diameter of the central section, and another vertical dimension line labeled 'D' indicates the diameter of the main body.</p>

## 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 variety of autoclave applications up to 160 °C, depending on the type of connection wire.

The RTD element is 100 % water/steam tight.

**Table 2: Measuring inserts details**

## Details

- Maximum temperature: 550 °C
- Minimum insulation resistance: 1000 MOhm at 500VDC, T<sub>amb</sub>=20 °C
- Conductors: material Cu
- Metal sheath: SS316-SS316L / 1.4404-1.4435
- Metal transition: transition is welded to the sheath

## PT100 element

S	D	Option	HV
Single	Double		High vibration

## Diameter ØD

D3	D3,2	D4,5	D4,8	D6	D6,35	D8	D9,53	D12,7	Other diameters on request
3,0 mm	3,2 mm	4,5 mm	4,8 mm	6,0 mm	6,35 mm	8,0 mm	9,53 mm	12,7 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	

## Dimensions reinforcement

OD reinforcement		X
STD	... mm	X
Same as sensor (model PQA, see sheath diameter)	Reinforced (model PQB, standard reinforcement: 8 mm)	Length in mm (Model PQB only)

**Table 3: Lead wires**

## Lead wire

Standard conductor wire gauge is AWG 24 (0,24 mm<sup>2</sup>). Other dimensions on request.

			Lead wire
Teflon®	Extruded FEP internal Cu/Ni shielding	max. +260 °C	<b>M01</b>
Silicone	Polyvinyl	-60 °C +180 °C	<b>M03</b>
Teflon ® + Silicone outer jacket	Extruded FEP internal Cu/Ni shielding + polyvinyl outer jacket	-60 °C +180 °C	<b>M07</b>

**Table 4: Additional accessories**

## Accessories

<b>24SOM</b>	<b>24SOF</b>		<b>Size</b>
Lemo® S series male connector	Lemo® S series female connector		00, 01, 02 or 03 <b>Others on request</b>

**Table 5: Certification possibilities**

## Certificates

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

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

## HOW TO ORDER (example)

Code		Example	Your code
<b>Main model</b>	See table 1	PQA	
<b>Pt100 element</b>	See table 2	S	
<b>Diameter ØD</b>	See table 2	D6	
<b>Electrical connection</b>	See table 2	W4	
<b>Accuracy</b>	See table 2	A1	
<b>Transition OD</b>	See table 2	STD	
<b>Lead wire</b>	See table 3	M01	
<b>Additional accessories</b>	See table 4	24SOF02	
<b>Insertion length Le</b>	In mm	Le150	
<b>Lead wire length E</b>	In mm	E5000	

Ordering code example:

PQA S D6 W4 A1 STD M01 24SOF02 Le150 E5000

**For all options: please contact Rodax**

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**PQ-Gen-RTD GB 201901**