I l EuroSensors

RTDs with terminal head

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RTDs with terminal head - Technical information



What is an RTD sensor ?

An RTD (Resistance Temperature Detector) is a type of sensor used to measure temperature.

RTDs are used for accurate, stable and reliable temperature measurements in generally high temperature ranges.

How does an RTD work ?

An RTD is a sensor that measures temperature using the variation of the electrical resistance of a conductive material. RTDs are usually made from platinum, gold or nickel. The operating principle of RTDs is based on Ohm's law of electrical resistance, which establishes a relationship between the electrical resistance of a conductor and its temperature.

According to this law, the electrical resistance of a conductor generally increases when its temperature increases.

Types of terminal heads

Many alternative types of terminal head are available to meet the requirements of various applications. Variations exist in size, material, accommodation, resistance to media, resistance to fire or even explosion and in other parameters.

Common types are shown below but there are many special variants available to meet particular requirements.

Terminal heads are a type of cold end termination which are common on industrial type temperature sensors. A temperature sensor will be encased in a ceramic or metal sheath which will be terminated at the cold end with a terminal head. Inside the head, terminal blocks or temperature transmitters are placed to carry the sensor signal to instrumentation.

These are protected from the external environment as terminal heads often provide good ingress protection (IP) and temperature protection. Most commonly terminal heads are made from aluminum but can be stainless steel, cast iron or plastic depending on the application. There are many standardized designs of head, the most common being KNE, ALA and BUZ.

Inside terminal head



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RTDs with terminal head - Technical information

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RTDs advantages

RTDs have several advantages over other types of temperature sensors:

High precision

RTDs have high temperature sensitivity, typically in the range of 0.1 to 0.2% per °C, allowing for accurate temperature measurement.

Long term stability

RTDs have long-term stability and longer life than thermistors, making them more reliable for long-term applications.

Wide operating temperature range

RTDs can operate in a temperature range of -200 to +850°C, making them suitable for many industrial applications.

Low ohmic resistance

RTDs have a low ohmic resistance compared to thermistors, which makes them easier to use with electronic circuits.

What is a PT probe ?

A PT (Platinum Resistance Thermometer) is a type of temperature sensor that uses a temperature deflection resistor (RTD) to measure temperature. It is based on the principle that the electrical resistance of a conductive material increases when its temperature increases.

Pt-s classes

Tolerances of Pt-s sensors can be tailored to customer specifics and thus manufactured to different tolerances. The higher the tolerance the smaller the margin of error relative to lower tolerances.

A system where these tolerances are classified is helpful for the end user and helps the interchangeability of these sensors. The IEC system is seen as the standard for the industry although there are other standards and other tolerance classes.

IEC	DIN4370	Temperature	Tolerance	Tolerance ºC
Standard	DIN4370	Range ^o C	Ω at 0ºC	Tolerance =C
W0.03	1/10 DIN	-100 to 350	100±0.012 Ω	±0.03 °C
/	1/5 DIN	-100 to 350	100±0.024 Ω	±0.06 °C
W0.1	1/3 DIN	-100 to 350	100±0.04 Ω	±0.10 °C
W0.15	Class A	-100 to 450	100±0.06 Ω	±0.15 °C
W0.3	Class B	-196 to 660	100±0.12 Ω	±0.30 °C

Understanding the naming of Pt100, PT500 and PT1000 sensors

First of all, "Pt" is the chemical symbol for platinum because platinum is the basic material for making the measuring element. The naming conventions of P100, PT500, and PT1000 sensors are closely tied to the nominal resistance values they exhibit at 0°C. P100 sensor has a nominal resistance of 100 Ω at 0°C, Pt500 sensor has a nominal resistance of 500 Ω at 0°C and Pt1000 sensor has a nominal resistance of 1000 Ω at 0°C. Understanding the meaning behind these designations allows us to discern their specific characteristics and applications.

Whether you require a standard PT100 sensor or a higher resistance variant like PT500 or PT1000, these RTD sensors provide reliable and accurate temperature measurements in a wide range of industries and applications.

Pt-s wiring configurations

The cable has certain resistance which adds to the RTD resistance. Thus, the total resistance is the sum of the RTD resistance and the lead wire resistance. This causes more voltage drop across the RTD measurement system and as a result causes inaccuracy in measurement. This is the reason why we use 2 wire, 3 wire, and 4 wire RTD configurations.

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RTDs with terminal head - Technical information

Terminal head component breakdown



What is a terminal block ?

Terminal block located in a "head" allow for the connection of extension wires. Various materials are used for screw or solder terminations including copper, plated brass and, for the best performance in the case of thermocouples, thermoelement alloys. The various head styles cater for a wide variety of probe diameters and cable entries.

Terminal blocks provide a secure and organized way to terminate multiple wires. The wires are inserted into a clamping mechanism

that holds them in place, making it easier to manage and connect different wires within a circuit. Terminal blocks provide a convenient and secure way to connect thermocouple wires to the measuring instrument or control system when using thermocouples. Terminal blocks are available in 2, 3, 4, and 6 poles with center hole (spring loading).



What is a temperature transmitter ?

A temperature transmitter is a device that converts the signal produced by a temperature sensor into a standard instrumentation signal representing a process variable temperature being measured and controlled. The most common transmitter instrumentation output signal is 4 to 20 mA. The signal from the temperature transmitter is sent to a controller that determines what action is required and generates an appropriate output signal.

Controllers are either a PLC or a DCS in process control today.

More on temperature transmitters and terminal blocks. See in the part *"Accessories".*



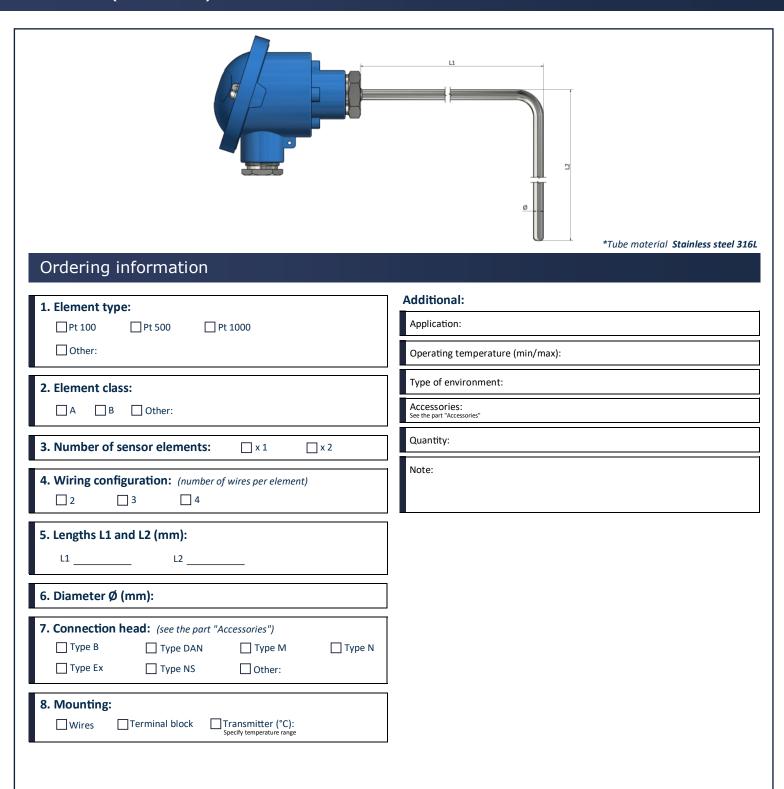
PH00 – RTDs with terminal head Standard

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Ordering information 1. Element type: Pt 100 Pt 500 Other: Application: Operating temperature (min/max): Operating temperature (min/max): Image: Contert class: A B A B Other: Type of environment: Accessories: Accessories: S. Number of sensor elements: x1 2 3 4 S. Length L (mm): Other: 6. Diameter Ø (mm): Type DAN 7. Connection head: (see the part "Accessories") Type N Type Ex Type N Other: Amounting:	less steel 3161	*Tube material Stain	
2. Element class.		Application:	Element type: Pt 100 Pt 500 Pt 1000
3. Number of sensor elements: x1 x2 4. Wiring configuration: (number of wires per element) 2 3 4 5. Length L (mm):		Accessories:	
6. Diameter Ø (mm): 7. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:			Wiring configuration: (number of wires per element) 2 3 4
8 Mounting			Connection head: (see the part "Accessories") Type B Type DAN Type M
Wires Terminal block Transmitter (°C): Specify temperature range			Mounting: Wires Terminal block Transmitter (°C): Specify temperature range
How to order?	որի		ow to order?

PH01 – RTDs with terminal head Standard (90° bend)

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How to order?

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PH10 – RTDs with terminal head Standard with fixed thread

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	LI L *Tube and thread material Stainless steel 316L
Ordering information 1. Element type: Pt 100 Pt 500 Other:	8. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:
2. Element class:	9. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range Additional:
3. Number of sensor elements: \$\times 1\$ \$\times 2\$ 4. Wiring configuration: (number of wires per element) 2 3 4	Application: Operating temperature (min/max):
5. Length L or L1 (mm):	Type of environment: Accessories: See the part "Accessories"
6. Diameter Ø (mm):	Quantity:
7. Thread: 1/2" BSPP 1/2" NPT Other:	Note:

How to order?

Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.

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PH11 – RTDs with terminal head Standard with fixed thread (90° bend) (type 1)

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	Tube and thread material Stainless steel 316
Ordering information	
1. Element type: Pt 100 Pt 500 Other:	9. Connection head: (see the part "Accessories") Type B Type DAN Type M Type N Type Ex Type NS Other:
2. Element class:	10. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Additional: Application:
4. Wiring configuration: (number of wires per element)	Operating temperature (min/max):
5. Lengths L1 and L2 (mm):	Type of environment: Accessories: See the part "Accessories"
	Quantity:
6. Length L or L3 (mm): L L3	Note:
7. Diameter Ø (mm):	
8. Thread: 1/2" BSPP 1/2" NPT Other:	
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How to order?	ոիդի

personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.

PH12 – RTDs with terminal head Standard with fixed thread (90° bend) (type 2)

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	Tube and thread material Stainless steel 316L
Ordering information	
1. Element type: Pt 100 Pt 500 Other:	9. Connection head: (see the part "Accessories") Type B Type DAN Type M Type N Type Ex Type NS Other:
2. Element class:	10. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range
3. Number of sensor elements: x1 x2	Additional:
4. Wiring configuration: (number of wires per element)	Operating temperature (min/max):
5. Lengths L1 and L2 (mm):	Type of environment: Accessories: See the part "Accessories"
L1 L2	Quantity:
6. Length L or L3 (mm):	Note:
7. Diameter Ø (mm):]
8. Thread: 1/2" BSPP 1/2" NPT Other:	
How to order?	վվի

PH13 – RTDs with terminal head Standard with fixed thread (offset)

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	Tube and thread material Stainless steel 31
Ordering information	
1. Element type: Pt 100 Pt 500 Other:	8. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:
2. Element class:	9. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range
3. Number of sensor elements: x1 x2	Additional: Application:
4. Wiring configuration: (number of wires per element)	Operating temperature (min/max):
5. Lengths L and L1 or L2 (mm): L L1	Type of environment: Accessories: See the part "Accessories"
6. Diameter Ø (mm):	Quantity: Note:
7. Thread: 1/2" BSPP 1/2" NPT Other:	
How to order?	վո

PH20 – RTDs with terminal head Reduced tip

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Ordering information	*Tube material Stainless steel 316L
1. Element type:	Additional: Application:
☐ Other:	Operating temperature (min/max):
2. Element class:	Type of environment:
A B Other:	Accessories: See the part "Accessories"
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Quantity:
4. Wiring configuration: (number of wires per element)	Note:
5. Dimensions L and Ø (mm): L Ø	
6. Dimensions L1 and Ø1 (mm):	
7. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:	
8. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	

How to order?

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PH21 – RTDs with terminal head Pointed tip

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	*Tube material Stainless steel 316
Ordering information	
1. Element type:	Additional:
□ Pt 100 □ Pt 500 □ Pt 1000	Application:
Other:	Operating temperature (min/max):
2. Element class:	Type of environment:
A B Other:	Accessories: See the part "Accessories"
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Quantity:
4. Wiring configuration: (number of wires per element)	Note:
5. Length L (mm):	
6. Diameter Ø (mm):	
7. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:	
8. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	
How to order?	ւլիլ

PH22 – RTDs with terminal head Open air

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Ordering information	*Tube material Stainless steel 316
1. Element type:	Additional:
□ Pt 100 □ Pt 500 □ Pt 1000	Application:
Other:	Operating temperature (min/max):
2. Element class:	Type of environment:
A B Other:	Accessories: See the part "Accessories"
3. Number of sensor elements: x 1 x 2	Quantity:
4. Wiring configuration: (number of wires per element)	Note:
5. Length L (mm):	
6. Diameter Ø (mm):	
7. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:	
8. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	
How to order?	վոր

PH23 – RTDs with terminal head Open air with fixed thread

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	L1 L1 *Tube and thread material Stainless steel 31
Ordering information	
1. Element type:	Additional: Application:
□ Other:	Operating temperature (min/max):
2. Element class:	Type of environment:
A B Other:	Accessories: See the part "Accessories"
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Quantity:
4. Wiring configuration: (number of wires per element)	Note:
5. Length L or L1 (mm):	
6. Diameter Ø (mm):	
7. Thread: 1/2" BSPP 1/2" BSPP 1/2" NPT Other:	
8. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:	
9. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	
How to order?	ոիվ

PH24 – RTDs with terminal head Open air with reduced tip

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	*Tube material Stainless steel 316L
Ordering information	
1. Element type: Pt 100 Pt 500 Other:	Additional: Application: Operating temperature (min/max):
2. Element class:	Type of environment: Accessories: See the part "Accessories"
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Quantity:
4. Wiring configuration: (number of wires per element)	Note:
5. Dimensions L and Ø (mm): L Ø	
6. Dimensions L1 and Ø1 (mm):	
7. Connection head: (see the part "Accessories") Type B Type DAN Type M Type N Type Ex Type NS Other:	
8. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	

How to order?

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PH25 – RTDs with terminal head Contact block (surface mount)

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	28 8 9 10 *Tube material Stainless steel 316L
Ordering information	
1. Element type: Pt 100 Pt 500 Other:	9. Contact block material: Brass Aluminum Other: 10. Contact block shape:
2. Element class:	0
3. Number of sensor elements:	□ V-shape □ Flat
4. Wiring configuration: (number of wires per element)	Additional: Application:
5. Lengths L1 and L2 (mm):	Operating temperature (min/max):
L1 L2	Type of environment:
6. Diameter Ø (mm):	Accessories: See the part "Accessories"
7. Connection head: (see the part "Accessories")	Quantity:
Type B Type DAN Type M Type N Type Ex Type NS Other:	Note:
8. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	
How to order?	ղիր

PH30 – RTDs with terminal head Flange sanitary mounting

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	Tube material Stainless steel 316L
Ordering information	
1. Element type: Pt 100 Pt 500 Other:	9. Flange sanitary mounting: DIN2527 (DN10 – PN6) Other: Additional:
2. Element class:	Application:
A B Other:	Operating temperature (min/max):
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Type of environment:
4. Wiring configuration: (number of wires per element)	Accessories: See the part "Accessories"
	Quantity:
5. Dimensions L and L1 (mm): L	Note:
6. Diameter Ø (mm):	
7. Connection head: (see the part "Accessories") Type B Type DAN Type M Type N Type Ex Type NS Other:	
8. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	

How to order?

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PH31 – RTDs with terminal head Tri-clamp sanitary mounting

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	Tube material Stainless steel 316L
Ordering information	
1. Element type: Pt 100 Pt 500 Other:	9. Tri-clamp sanitary mounting: DIN32676 / ISO 2852 (DN25) Other: Additional:
2. Element class:	Application:
A B Other:	Operating temperature (min/max):
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Type of environment:
4. Wiring configuration: (number of wires per element)	Accessories: See the part "Accessories"
	Quantity:
L L1 L1 <thl1< th=""> <thl1< th=""> <thl1< th=""> L1<td>Note:</td></thl1<></thl1<></thl1<>	Note:
6. Diameter Ø (mm):	
7. Connection head: (see the part "Accessories") Type B Type DAN Type M Type N Type Ex Type NS Other:	
8. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	

How to order?

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PH32 - RTDs with terminal head Disc DIN11851 (screw-on) sanitary mounting

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*Tube material Stainless steel 31
9. Disc DIN 11851 sanitary mounting: DIN 11851 (DN20) Other:
Additional:
Application:
Operating temperature (min/max):
Type of environment:
Accessories: See the part "Accessories"
Quantity:
Note:
]

PH40 – RTDs with terminal head Exchangeable insert

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	Tube material Stainless steel 31
Ordering information Element type: 	8. Type of exchangeable insert:
□ Pt 100 □ Pt 500 □ Pt 1000 □ Other:	
2. Element class:	
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Wires Terminal block Transmitter (°C):
4. Wiring configuration: (number of wires per element) 2 3	Additional: Application:
5. Length L (mm):	Operating temperature (min/max):
6. Diameter Ø (mm):	Type of environment:
7. Connection head: (see the part "Accessories")	Accessories: See the part "Accessories"
□ Type B □ Type DAN □ Type M □ Type N □ Type Ex □ Type NS □ Other:	Quantity:
	Note:
How to order? Choose the desired characteristics of your sensor by marking the che personal notes, special requirements or any important data. For add	اباری eckboxes and by filling up the text. You can provide sketches, images,

PH41 – RTDs with terminal head Exchangeable insert with fixed thread

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	*Tube and thread material Stainless steel 316L
Ordering information	
1. Element type: Pt 100 Pt 500 Other:	9. Type of exchangeable insert:
2. Element class:	Wires Terminal block
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	T Specify temperature range
4. Wiring configuration: (number of wires per element)	Additional:
2 3 4	Application:
5. Length L or L1 (mm):	Operating temperature (min/max):
L L1	Type of environment:
6. Diameter Ø (mm):	Accessories: See the part "Accessories"
	See the part Accessories Quantity:
7. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:	Note:
8. Thread: 1/2" BSPP 1/2" NPT Other:	

How to order?

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PH42 – RTDs with terminal head Exchangeable insert with fixed thread (offset)

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Ordering information	*Tube and thread material Stainless steel 316L
1. Element type: Pt 100 Pt 500 Other: 2. Element class: A B Other:	9. Type of exchangeable insert:
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Wires Terminal block Transmitter (°C): T
4. Wiring configuration: (number of wires per element)	Additional: Application:
5. Lengths L and L1 or L2 (mm):	Operating temperature (min/max):
L L1 L2	Type of environment:
6. Diameter Ø (mm):	Accessories: See the part "Accessories"
7. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:	Quantity: Note:
8. Thread: 1/2" BSPP 1/2" NPT Other:	

How to order?

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PH50 – RTDs with terminal head For aggressive environments

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Ordering information I. Element type: Pt 100 Pt 500 Other:	*Fitting material PTFE (260° *Tube material Stainless steel 316L with PTFE protection Additional: Application: Operating temperature (min/max):
 2. Element class: A B Other: 3. Number of sensor elements: X1 X2 4. Wiring configuration: (number of wires per element) 2 3 4 	Type of environment: Accessories: See the part "Accessories" Quantity: Note:
 5. Length L (mm): 6. Diameter Ø (mm): 7. Connection head: (see the part "Accessories") 	
Type B Type DAN Type M Type N Type Ex Type NS Other: 8. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	
How to order?	ااب neckboxes and by filling up the text. You can provide sketches, images,

PH51 – RTDs with terminal head For aggressive environments with fixed thread

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Ordering information 1. Element type:	*Thread material PTFE (260°C) *Tube material Stainless steel 316L with PTFE protection Additional:
□ Pt 100 □ Pt 500 □ Pt 1000	Application:
Other:	Operating temperature (min/max):
2. Element class:	Type of environment: Accessories:
3. Number of sensor elements: $\square \times 1 $ $\square \times 2$	See the part "Accessories" Quantity:
4. Wiring configuration: (number of wires per element) 2 3 4	Note:
5. Length L or L1 (mm): L L1	
6. Diameter Ø (mm):	
7. Thread: 1/2" BSPP 1/2" NPT Other:	
8. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:	
9. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range	
How to order? Choose the desired characteristics of your sensor by marking the ch	$ \cdot _{1}$

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personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.

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How to order?

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PH60 – RTDs with terminal head Spring loaded

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	L1 *Tube and thread material Stainless steel 316L
Ordering information 1. Element type: Pt 100 Pt 500 Pt 1000 Other:	8. Connection head: (see the part "Accessories") Type B Type DAN Type Ex Type NS Other:
2. Element class:	9. Mounting: Wires Terminal block Transmitter (°C): Specify temperature range
3. Number of sensor elements: $\ \ x 1 $	Additional: Application:
4. Wiring configuration: (number of wires per element)	Operating temperature (min/max):
	Type of environment:
5. Lengths L1, L2, L3 (mm):	Accessories: See the part "Accessories"
L1 L2 L3	Quantity:
6. Diameter Ø (mm):	Note:
7. Thread: 1/2" BSPP 1/2" NPT Other:	

PI00 – RTDs with terminal head Disc plate insert

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	*Tube material Stainless steel 3 2
Ordering information	
1. Element type:	Additional:
Other:	Operating temperature (min/max):
2. Element class:	Type of environment:
A B Other:	Accessories: See the part "Accessories"
3. Number of sensor elements:	Quantity:
4. Wiring configuration: (number of wires per element) 2 3 4	Note:
5. Sheath length L (mm):	
6. Diameter Ø (mm):	
How to order?	վա

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Ordering information

1. Element type:	Additional:
□ Pt 100 □ Pt 500 □ Pt 1000	Application:
Other:	Operating temperature (min/max):
2. Element class:	Type of environment:
A B Other:	Accessories: See the part "Accessories"
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Quantity:
4. Wiring configuration: (number of wires per element)	Note:
5. Sheath length L (mm):	
6. Diameter Ø (mm):	

How to order?

Choose the desired characteristics of your sensor by marking the checkboxes and by filling up the text. You can provide sketches, images, personal notes, special requirements or any important data. For additional questions and assistance, feel free to contact us.

PI01 – RTDs with terminal head Insert with terminal block (spring loaded)

*Tube material Stainless steel 316L

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PI02 – RTDs with terminal head Insert with transmitter block (spring loaded)

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Ordering information	*Tube material Stainless steel 316L
1. Element type: Pt 100 Pt 500 Other:	Additional: Application: Operating temperature (min/max):
2. Element class:	Type of environment: Accessories: See the part "Accessories"
3. Number of sensor elements: $\Box \times 1$ $\Box \times 2$	Quantity:
4. Wiring configuration: (number of wires per element)	Note:
5. Sheath length L (mm):	
6. Diameter Ø (mm):	
7. Transmitter (°C): Specify temperature range	

How to order?

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