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PT55, PTP55

RESISTANCE THERMOMETERS WITH HEAD

Design:

PT55 (PTP55)



- Designed for installation in pipe or vessel wall

- With two (three) programmable wire 4-20 mA transmitter

Resistance thermometers without a converter:

Stem sensor is made of stainless steel AISI321 (1.4878). The metal head is equipped with IP56 junction box.

The total length of stem X and Y is determined by a customer. The basic connection is fitting M12x1, 5.

It is possible other fittings - for example, M12x1, 75, G1 / 2, M20x1, 5 ...

Thermometer without transmitter can be equipped with sensor Pt100 / A or B, Pt1000, Ni1000, c KTY, PTC, thermocouples, etc., in two, three or four-wire connection.

It can also be equipped with two sensors into a single stem.

PT55 - for liquids Ø6mm, -25 ... +120 ° C (τ = approx. 10sec) or -25 ... +400 ° C (τ = approx. 25sec)

Specifications:	Temperature sensor: Ambient temperature:	Pt100 / "B" or "A" according to IEC 751, or others, according to a customer requirements -25 +100 $^\circ$ C
	Dielectric strength:	500V, insulation resistance min. 20M Ω (between circuit and the metal housing)

Resistance thermometers with a converter to 4-20 mA:

Stem sensor is made of stainless steel AISI321 (1.4878). Converter PP200 with output 4..20mA is installed to the metal head with IP56. The total length of stem X and Y is determined by a customer. The basic connection is fitting M12x1, 5.

It is possible other fittings - for example, M12x1, 75, G1 / 2, M20x1, 5 ...

The measuring range of the converter can be made arbitrary, min. range is 10 ° C.

Thermometer with a transmitter can be equipped with sensor Pt100 / A or B, Pt1000, Ni1000 etc. in two (three) wire connection.

PTP55 - for liquids Ø6mm, -25 ... +120 ° C (τ = approx 10sec) or -25 ... +400 ° C (τ = approx 25sec)

Specifications: Temperature sensor: Pt100 / "B" or "A" according to IEC 751, or another customer request Measuring range: any in the acceptable range, min. range 10 ° C

Accuracy: ± 0.3% FS Output signal: 4 ... 20mA linear

Power supply: according to the transmitter - the output signal

Ambient temperature: -25 ... +80 ° C

Overpressure liquid: up to 15 MPa

Dielectric strength: 500V, insulation resistance min. 20M Ω (between circuit and the metal housing)

Parameters of individual converters PP200, PP300, PPL100, which are intended for the thermometer you can see on our web site.

PT55H or PTP55H are made without a mounting screw. Here are selected only stem length X.

PI55H or PIP55H are made wit	nout a mounting screw. Here are selected only stem length	gth X.
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Type tests:

Standard type test: according to ČSN EN 60770-1 ed.2 EMC according to ČSN EN 61326-1 Safety assessed according to ČSN EN 61010-1

> PT55 (PTP55) pro kapaliny, \emptyset 6mm

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M12x1,5

The order should include:

Version without a converter:

- Type of sensor, or any other spec. requirements (four-wire connections, dual sensor ...)
- Expected maximum temperature measured
- The total stem length (X) and dive (Y) with regard to the table below
- Mounting bolts M12x1, 5, G1/2....etc.
- Number of pieces

Table recommended distance head from the fitting:

Up to 100°C..... at least 125°C..... 50mm 150°C..... 80mm 200°C.....100mm 300°C.....120mm 400°C.....160mm

Version with a converter:

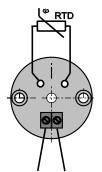
- Type of sensor, or any other spec. requirements
- Converter type
- Measuring range of the thermometer [° C]
- The total stem length (X) and draft (Y) with regard to the table below
- Mounting bolts M12x1, 5, G1/2....etc.
- Number of pieces

Table recommended distance head from the fitting:

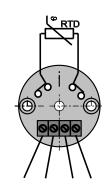
Up to 80°C...... at least 100°C..... 50mm 125°C..... 80mm 150°C.....100mm 200°C.....120mm 300°C.....140mm

400°C.....180mm

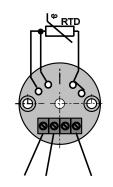
Connection terminals:



Two-wire connection



Four-wire connection:

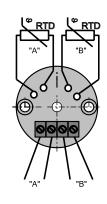


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Three-wire connection:

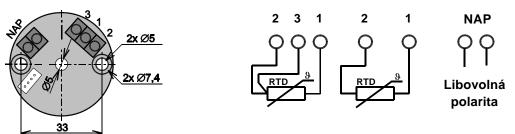


Two sensors, two-wire connection:



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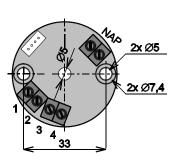
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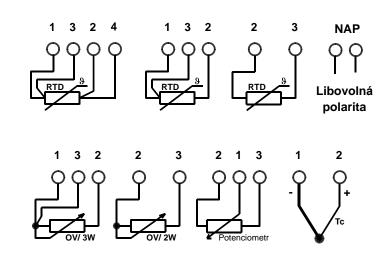


Connection terminals:

NAP: power 8 ... 28V DC, output current loop (polarity insensitive)

P300

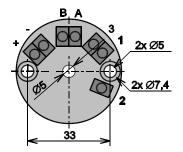


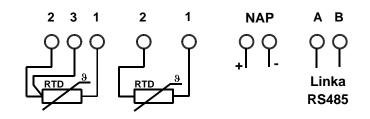


Connection terminals:

NAP: power 8 ... 28V DC, output current loop (polarity insensitive)

PPL100





Connection terminals: NAP: (-), (+): power 8 ... 28V DC

All terminals accept wires with cross sections up to 2.5 mm2.

Examples of orders:

PT55 160/80mm G1 / 2 P100 / B max 150 ° C, 1 PT55H 170 mm P100 / A up to 150 ° C, 2 pieces PTP55 300/160mm M20x1, 5 0th .. +300 ° C / ASCII, 10pcs PT55 min/100mm M12x1, 5 2xPt1000 / B 100 ° C, 3 pieces 320 mm PTP55H 0th .. +200 ° C / 4-20mA, 9 pieces

The thermometer can be ordered exposure calibration.

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