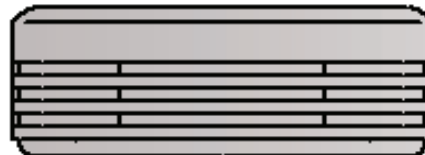


Temperature sensor suitable for measurement of living quarters and office space, mainly in ventilation and air-conditioning systems. Flexible housing made of plastic is adequate for wall mounting. Optionally, sensor can be equipped with transmitter converting measured value to 4÷20mA current.



Specification

Temperature range / sensing element

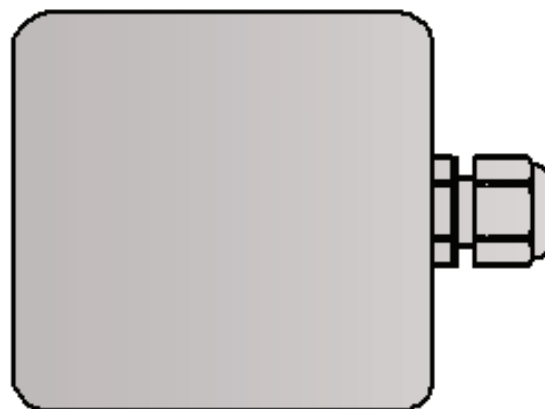
-40÷60°C **Pt100** class B

Sheath

– without - unsheathed measuring resistor inside perforated housing

Housing

- material ABS, IP-20
- humidity: max. 80% RH
- mounting holes span 48mm



Other parameters acc. to requirements

Options

Non-standard design

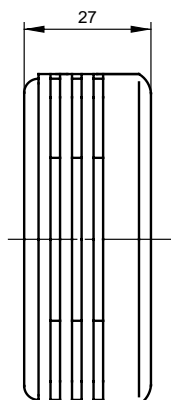
RTD parameters can be customized per client request.

Calibrations performed by Limatherm Sensor Sp. z o.o. are confirmed with the Calibration Certificate of the Accredited Laboratory for Temperature Measurements.

Tolerance for classes of sensors with resistors Pt acc. to PN-EN 60751

Sensor classes	Range of application [°C]	Formula for calculating acceptable deviations [°C]
AA	0÷150	$T = \pm(0,10 + 0,0017 t)$
A	-30÷300	$T = \pm(0,15 + 0,002 t)$
B	-50÷500	$T = \pm(0,3 + 0,005 t)$

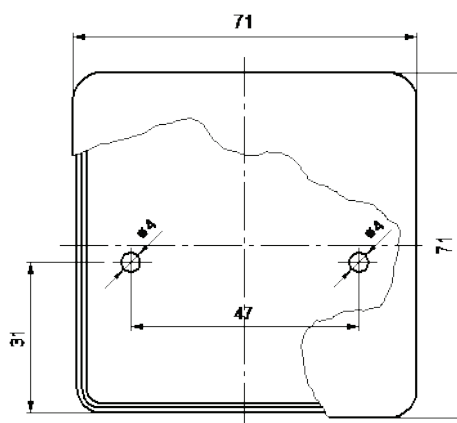
|t| - absolute value of temperature



Measurement circuit

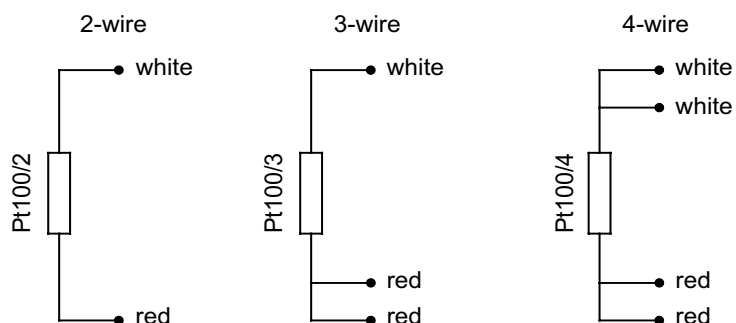
1 x Pt100			2 x Pt100			1 x TC	2 x TC
2-wire	3-wire	4-wire	2-wire	3-wire	4-wire	2-wire	2-wire
✓	✓	✓	x	x	x	✓	x

Installation type

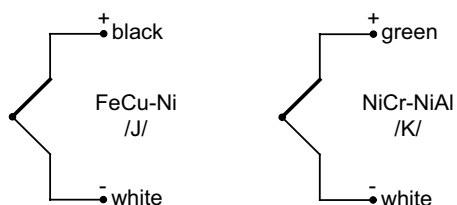


Connection schemes

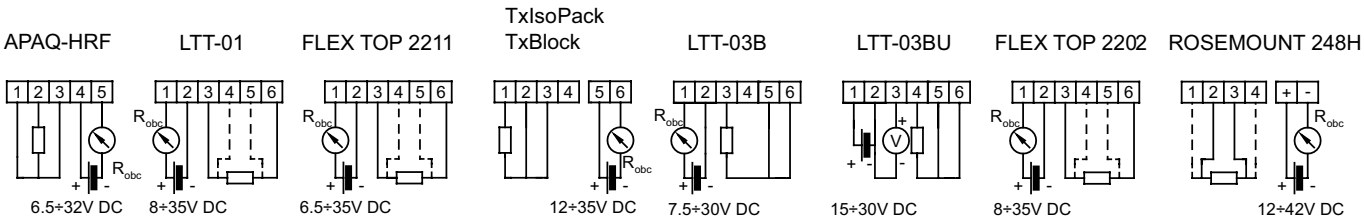
Pt100 (thermometric resistor)



TC (thermocouple)



Transmitters (only Pt)



Product code

Resistor type	
1	P resistor Pt
	N resistor Ni
Resistor type	
2	Pt100 Pt100
	other parameters acc. to requirements
Accuracy	
3	A or B for resistor Pt
Measurement circuit	
4	2 2 - wire
	3 3 - wire
	4 4 - wire
Additional accessories	
5	P7 version with cable gland

1

TO

O-833

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2

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3

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4

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5

Ordering example: **TOPO-833-Pt100-A-3** sensor with Pt100, class A, 3-wire connection, without gland