

Temperature transmitter is an integral element of temperature sensor, available also as a separate component. It converts temperature sensor signal to analogue 4÷20mA, voltage 0÷10V or different signal. Transmitter can be placed directly in connection head or on TS-35mm rail.

## Specification

### Characteristic

- universal transmitter
- mounting in connection head BA: TxIsoPack
- galvanic isolation input/output
- sensor error correction
- PC configurable via cable mini USB (option TxIsoPack)
- additional configuration set is not required
- simple parameters configuration

### Input

- resistance: Pt100, 3-wire
- thermocouple: J, K, T, N, E, R, S, B
- voltage: - 0÷50 mV
- current: - 0÷20 mA

Input type	Range	Min. span
Pt100	-200÷530°C	40°C
J	-100÷760°C	100°C
K	-150÷1370°C	100°C
T	-160÷400°C	100°C
N	-270÷1300°C	100°C
E	-90÷720°C	100°C
R	-50÷1760°C	400°C
S	-50÷1760°C	400°C
B	500÷1820°C	400°C
voltage	0÷50 mV	5 mV
current	0÷20 mA; 4÷20 mA	

### Output

4÷20 mA

### Accuracy

0,2% of range for Pt100  
0,3% of range for thermocouple  
temperature drift 0,003% of range/°C

### Response time

≤500 ms

### Galvanic isolation

1000V input/output

### Max. loop resistance

$$R_{l \max} = (U_{\text{supply}} - 12) / 0,02 \text{ } [\Omega]$$

### Lead wire connection

< 2,5 mm<sup>2</sup>

### Power supply

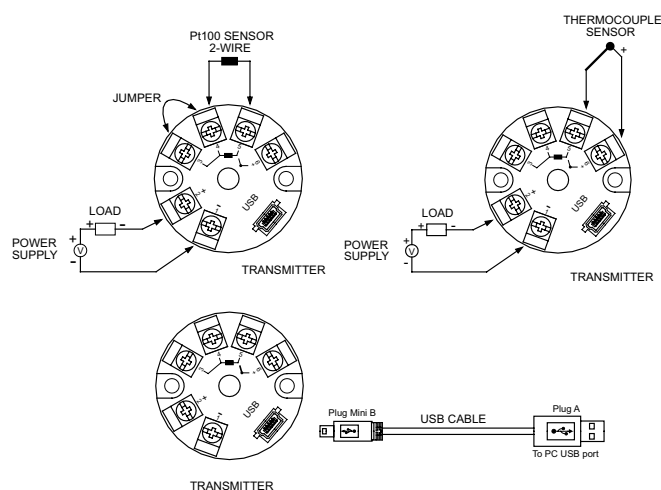
12÷35V DC

### Operating conditions

temperature: -20÷75°C  
humidity: up to 90% RH non-condensing



## CONNECTION SCHEMES



**Product code**

1	<input type="text"/>	<b>Transmitters version</b>	
		<b>Pack-USB</b>	head mounted
2	<input type="text"/>	<b>Temperature range</b>	
		<b>(0÷1000)°C</b>	(0÷1000)°C
			other parameters acc. to requirements
3	<input type="text"/>	<b>Input type</b>	
		<b>Pt100</b>	Pt100
		<b>J</b>	J
		<b>K</b>	K
		<b>T</b>	T
		<b>N</b>	N
		<b>E</b>	E
			other parameters acc. to requirements
4	<input type="text"/>	<b>Output type</b>	
		<b>1</b>	4÷20mA

1      2      3      4

TxIso  -  -  -

Ordering example:

**Transmitters TxIsoPack-USB(0÷300°C)-1**