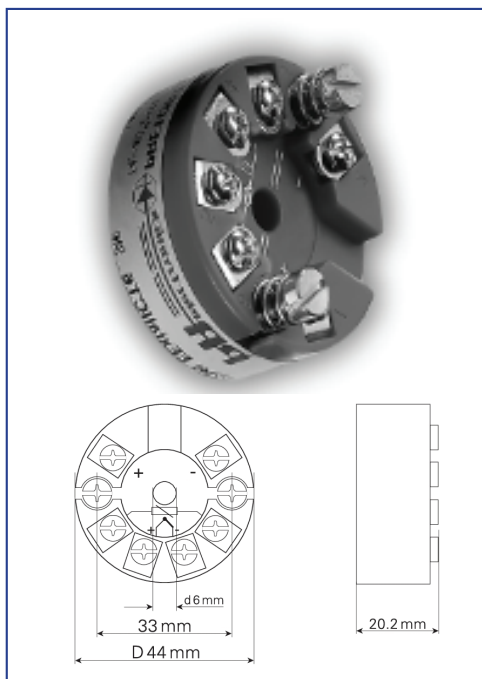


PRetop 5331

Temperature Transmitter Type PRetop 5331

Temperature transmitter type 5331 is universal, intelligent, 2-wire transmitter for assembling in sensor connection head. The transmitter is configurable using PC software. Execution is basic and intrinsic safe with certificate KEMA 06 ATEX 0062X and GOST.



Type	Execution
5331 A	Basic
5331 B	Intrinsic safe Ex II 1G; EExia IIC T1...T6

Technical specification

INPUT

Cooperative sensor	Type	Acc. to standard	Current	Measuring range
Resistor Pt100...Pt1000	line 3, 4-wire	EN 60751	0,4 mA	-200°C...+850°C
Resistor Ni100...Ni1000				-60°C...+250°C
Thermocouple	E, J, K, L, T, U, B, R, S	EN 60584	-	-12mV to 800mV min. range 5mV

OUTPUT

Current	Resistance (Drawing 1)	Sensor interval (configurable)
4 – 20 mA	$R_{ob} = (U_z - 8) / 0,023 \text{ [A]}$	23 mA or 3,5 mA

Cooperative sensor	Accuracy	Voltage U_z	Ambient temp.	Influence of ambient temp.
Resistor	$\pm 0,05 \%$ of range	8 – 35 VDC	-40°C...+85°C	$\pm 0,01\%$ of range / °C
Thermocouple	$\pm 1 \text{ }^\circ\text{C}$	8 – 28 VDC (Exi)		$\pm 0,05 \text{ }^\circ\text{C} / \text{ }^\circ\text{C}$

Galvanic separation
not present
1500 V AC

Mounting
in connection head

Ordering Information

PRetop5331

U

V

X

Y

Z

U Execution

A	Basic
B	Intrinsic safe

V Sensor type

Pt100	Pt100
Ni100	Ni100
Pt1000	Pt1000
Ni1000	Ni1000
E	Thermocouple type E
J	Thermocouple type J
K	Thermocouple type K
L	Thermocouple type L
T	Thermocouple type T
U	Thermocouple type U
B	Thermocouple type B
R	Thermocouple type R
S	Thermocouple type S

X Configuration

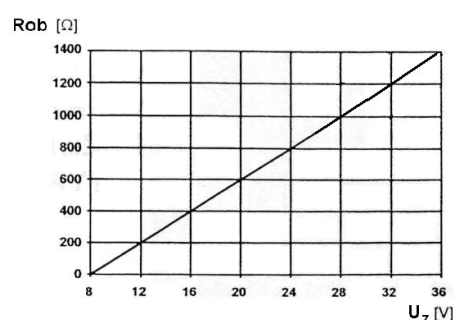
2p	2-wire
3p	3-wire
4p	4-wire

Y Temperature range ($T_1 \div T_2$)

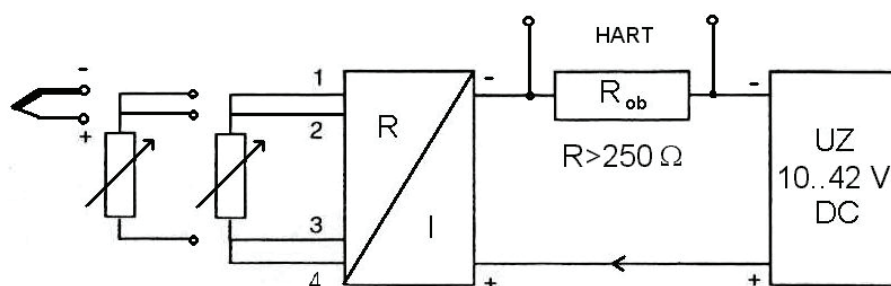
	specify in °C
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Z Galvanic separation

0	not present
1	1500 V AC



Drawing 1. Resistance overcharge



Drawing 2. Configuration

Ordering Example:

PRetop5331-B-Pt100-3p-0÷100°C-0

stands for: Temperature transmitter type 5331, intrinsic safe, sensor type resistor Pt100, configuration 3-wire, temp. range 0÷100°C, galvanic isolation not present.