

PRetop 5335

Temperature Transmitter Type PRetop 5335



Temperature transmitter type 5335 s universal, intelligent, 2-wire transmitter with HART protocol, for assembling in sensor connection head. One can communicate directly through handy HART protocol or using PC. Execution is basic and intrinsic safe with certificate KEMA 03 ATEX 1508X and GOST.

Usage declaration for SIL2.

Type	Execution
5335 A	Basic
5335 D	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 2,3, 4-wire	EN 60751 PN-83/M-53852	0,2 mA	-200°C...+850°C
Resistor Ni100...Ni1000				-60°C...+250°C
Thermocouple	E, J, K, L, T, U, B, R, S	EN 60584	-	-800 mV...+800 mV min. range 2,5mV

OUTPUT

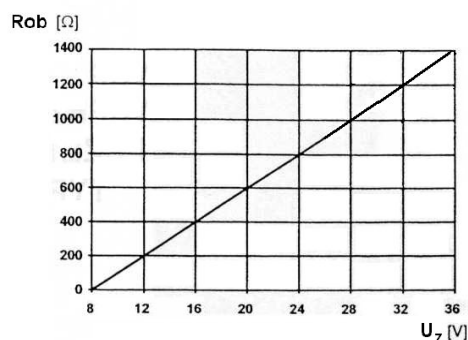
Current	Protocol	Resistance (Drawing 1)	Sensor interval (configurable)
4 – 20 mA	HART	$R_{ob} = (U_z - 8)/0,023 \text{ [A]}$	23 mA or 2,3 mA

Cooperative sensor	Accuracy	Voltage U_z	Ambient temp.	Influence of ambient temp.
Resistor	±0,05 % of range	8 – 35 VDC	-40°C...+85°C	±0,05% of range / °C
Thermocouple	±0,5 °C	8 – 28 VDC (Exi)		± 0,025 °C / °C

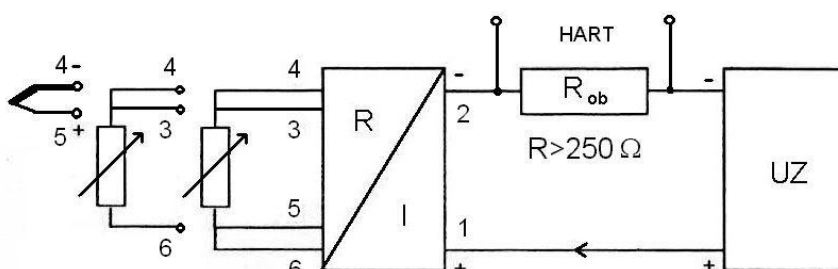
Galvanic separation
1500 V AC

Mounting
in connection head

Resistance overcharge



Configuration



Ordering Information

PRetop5335

V

X

Y

Z

V Execution

A	Basic
D	Intrinsic safe

X 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

Y Configuration

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

Z Temperature range (T₁ ÷ T₂)

specify in °C

Ordering Example:

PRetop5335-D-Pt100-3p-0÷300°C

stands for: Temperature transmitter type 5335, intrinsic safe, sensor type resistor Pt100, configuration 3-wire, range 0÷300°C.