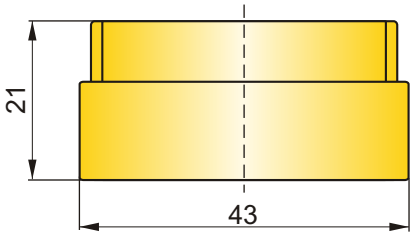
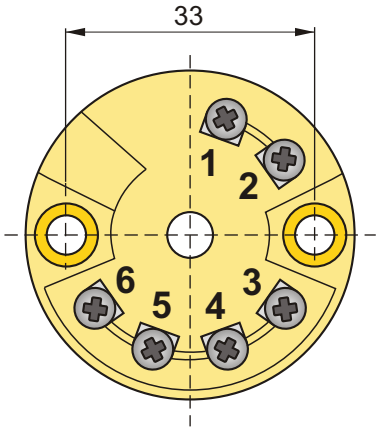
Head-mounted temperature transmitter type ATX-2





- ✓**Programmable sensor type Pt100, Pt500, Pt1000, Ni100**
- ✓**Programmable measuring range.**
- ✓**Thermoresistance line compensation (3 wires line)**
- ✓**Output signal 4…20mA**
- ✓**ATEX certificate Ex II 1G Exia II CT6**
- ✓**Head- mounting system.**

Application and function

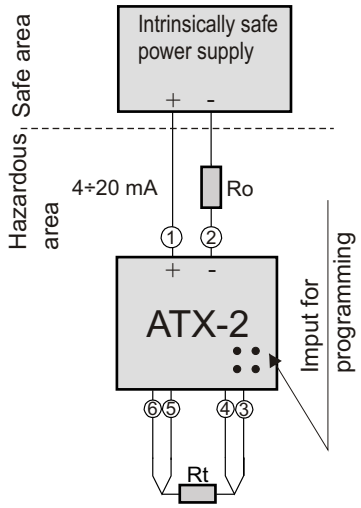
The temperature transmitter ATX-2 is applicable to converting resistance of temperature sensor to standard current signal 4...20mA in hazardous area. Most of parameters such a sensor type, input signal, measuring range may be adapted by user for specific requirements of his measuring system. The transmitter is programmed using PC with RS converter and Aplisens configuration software.
If in order are specified sensor type and measuring range, transmitter is set according to order in Aplisens production and required parameters are printed on serial number label.

Technicaldata

Input signal	Pt,Ni
Min.measuring range	10°C
Output signal	4–20mA
Power supply	8…30VDC
Load resistance	R_d[kΩ]<(U_z–8V)/22mA
Alarm signal	21mAor3,5mA
Accuracy for ΔR>20Ω	±0,2%
Thermal error	±0,05%/10°C
Ambient temperature	-40…+85°C
Accuracy:	

PT100: -100÷200°C	±0,2°C	PT1000: -100÷200°C	±0,2°C
PT100: -200÷850°C	±0,4°C	PT1000: -100÷250°C	±0,4°C
PT500: -100÷200°C	±0,2°C	Ni100: -60÷250°C	±0,2°C

Electrical diagrams



Input parameters

Input terminals 3, 4, 5, 6:
Uo = 9,6V, Io = 4,5mA, Po = 11mW,
Lo = 4,5mH dla IIC; 8,5mH dla IIB
Co = 709nF dla IIC; 1300nF dla IIB
Supply terminals 1(+) 2(-):
Ui = 30V, Ii = 100mA, Pi = 750mW, Li ~ 0, Ci ~ 0

Ordering procedure.

ATX-2 /___/__÷__°C/___

Sensor type:Pt100,Ni100

Measuring range

Alarm signal

Example: temperature transmitter ATX-2, sensor typePt100, measuring range 0…100°C, alarm signal23mA.

ATX-2/Pt100/0…100°C/23mA