

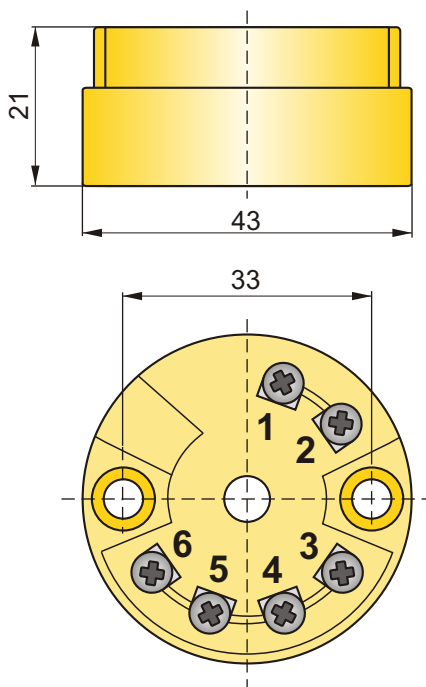
Head-mounted temperature transmitter ATX-2



- ✓ Programmable sensor type Pt100, Pt500, Pt1000, Ni100
- ✓ Programmable measuring range.
- ✓ Thermoresistance line compensation (3 wires line)
- ✓ Output signal 4...20mA
- ✓ ATEX certificate  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 as 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 Aplsens configuration software. If in order are specified sensor type and measuring range, transmitter is set according to order in Aplsens production and required parameters are printed on serial number label.

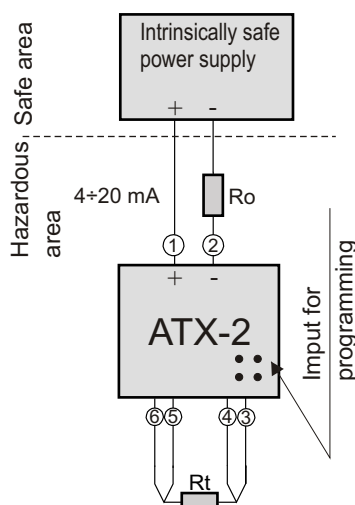


Technical data

Input signal	Pt,Ni
Min.measuring range	10°C
Output signal	4-20mA
Power supply	8...30VDC
Load resistance	$R_d[k\Omega] < (U_z - 8V) / 22mA$
Alarm signal	21mA or 3,5mA
Accuracy for $\Delta R > 20\Omega$	$\pm 0,2\%$
Thermal error	$\pm 0,05\% / 10^\circ C$
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

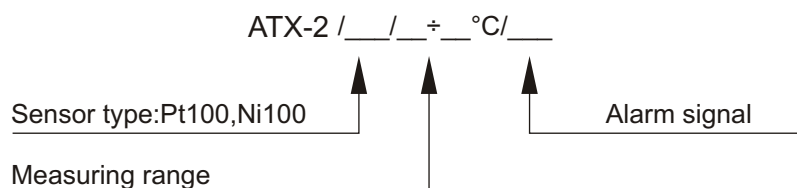
Electrical diagrams



Input parameters

Input terminals 3, 4, 5, 6:
 $U_o = 9,6V$, $I_o = 4,5mA$, $P_o = 11mW$,
 $L_o = 4,5mH$ dla IIC; 8,5mH dla IIB
 $C_o = 709nF$ dla IIC; 1300nF dla IIB
 Supply terminals 1(+), 2(-):
 $U_i = 30V$, $I_i = 100mA$, $P_i = 750mW$, $L_i \sim 0$, $C_i \sim 0$

Ordering procedure.



Example: temperature transmitter ATX-2, sensor type Pt100, measuring range 0...100°C, alarm signal 23mA.

ATX-2/Pt100/0...100°C/23mA