# Head-mounted temperature transmitter type AT-3

Pt100 / 2 or 3 wire

25°C

1 s

500 ms

21.5 mA

±0,2 µA/V

-40...+85°C

10...30 V DC

3,9 mA or 21,5 mA

-195 ÷ 845°C (18 ÷ 390 Ω)

2 wire 4 ÷ 20 mA current loop

 $R_0 \left[\Omega\right] \le (U_z - 10 \text{ V}) / 20 \text{ mA}$ 

±0,2°C±0,05% of reading

±0,02% /°C (for 20°C)

✓ For sensor Pt100, 2 or 3 wires

Sensor type

Sensor range

Minimum span

Output signal

**Response time** 

Power supply (U<sub>z</sub>)

Load resistance (R<sub>o</sub>)

factory setting

Loop voltage effect

Measurement accuracy

Ambient operating range

Sensor break alarm (configurable)

Update time

Thermal drift

- Possibility of programing measuring range
- ✓ Output signal 4...20mA, two wire

PLISEN

✓ LED indicator for failure signalization

### Application and function

The temperature transmitter AT-3 is applicable to converting resistance of temperature sensor Pt100 to standard current signal 4...20mA. Transmitter has function of compensation non linearity of the sensor.

Transmitter can be built in head of sensor. Electrical connection is made with cable cross section up to 1,75  $\rm mm^2.$ 

Transmitter can be ordered with factory set configuration according to customer request. User has also possibility of changing configuration using PC computer with converter USB-AT-3 and special software.

In addition to change measuring range user has possibility of configuration behaviour of transmitter when sensor is broken and setting compensation of resistance in 2 wire sensor.

#### **Technical data**







## **Ordering procedure**



**Example**: Temperature transmitter type AT-3 for resistance sensor Pt100, measuring range from 0 to 100°C, 2 wires

#### AT-3 / Pt100 / 0 ÷ 100°C/ 2

## **Electrical diagrams**

