

Rail-mounted smart temperature transmitter type LI-24, LI-24Ex



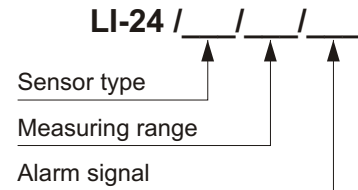
Outer dimensions:
width: 27,5mm
height: 80mm
depth: 106,7mm

- ✓ Galvanic insulation (In, out)
- ✓ Programmable sensor type
- ✓ Programmable measuring range
- ✓ Resistant thermoresistance line compensation
- ✓ Compensation of thermocouple cold junction
- ✓ Output signal 4...20mA + Hart protocol
- ✓ Ambient temperature from -25 to +80 °C
- ✓ Rail mounting system.
- ✓ Autodiagnostic system
- ✓ Hart protocol
- ✓ ATEX certificate

II 1G Ex ia IIC T4/T5
I M1 Ex ia I
FTZU 08 ATEX 0160x



Ordering procedure



Technical data

Input signal	K, J, S, B, N, T voltage Pt100, Ni100 resistance
Limit process	- 10mV < E < 100mV or -100mV < E < 1000mV 0Ω < R < 400Ω or 0Ω < R < 2000Ω
Min. measuring range	10mV or 10Ω
Output signal	4 – 20mA
Power supply	13...50V DC
Max. Wires resistance	500Ω
Alarm signal	21,5mA or 3,75 mA or setting by user
Sensor current	0,42mA
Galvanic insulation	Optoelectrical
Accuracy	± 0,1%
Time constant	0,3s
Additional electronic damping	0..30s
Ambient temperature	-25...+75°C

Application and function

The temperature transmitter LI-24 is applicable to converting resistance of temperature or voltage of thermocouple sensor to standard current signal 4-20mA. The transmitter has two separate measuring channels enabling measurement of difference temperature, average, average with redundancy, max or min temperature. Transmitter has compensation of ambient temperature influence and compensation of thermocouple cold junction using internal/external (Pt100) sensor or constant temperature.

Most of parameters such as: sensor type, measuring range, current alarm signal when electric circuit is broken, output characteristic correction, user characteristic (60 points) are programmed using PC with RS/Hart converter and Aplisens MPT2 configuration software or KAP-03 communicator. For request Aplisens can set temperature transmitter parameters like measuring range, type of sensor. Their values are printed on label. Transmitter for rail mounting (TS-35).

Electrical diagrams.

