

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



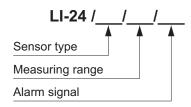
Outer dimensions: width: 27,5mm height: 80mm depth: 106,7mm

- ✓ 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
	$0\Omega {<} R {<} 400\Omega$ or $0\Omega {<} R {<} 2000\Omega$
Min. measuring range	10mV or 10Ω
Output signal	4 – 20mA
Power supply	1350V DC
Max. Wires resistance	500Ω
Alarm signal 21,5m/	A or 3,75 mA or setting by user
Sensor current	0,42mA
Galvanic insulation	Optoelectrical
Accuracy	± 0,1%
Time constant	0,3s
Additional electronic da	mping 030s
Ambient temperature	-25+75°C
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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 chanels enabling measurement of difference temperature, averange, averange with redundancy, max or min temperature. Transmitter has compensation of ambient temparature 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.

