

Rail-mounted smart temperature transmitters type LI-24L



Dimensions (WxHxD)

- Galvanic insulation (In, out)
- Programmable sensor type
- Programmable measuring range
- Thermoresistance line compensation
- Compensation of thermocouple cold junction
- Output signal 4...20mA + Hart protocol
- Ambient temperature from -25 to +75 °C
- Hart protocol
- Autodiagnostic system
- Safety version SIL2/SIL3
- Intrinsic safe version







Technical data

K, J, S, B, N, T, R, E voltage Input signal Pt10, Pt50, Pt100, Pt200, Pt500, Pt1000, Ni100, Cu100, resistance Limit process - 10mV< E<100mV or -100mV< E<1000mV 0Ω <R<400 Ω or 0Ω <R<2000 Ω Min. measuring range 10mV or 10Ω Output signal 4...20mA + HART 10...36V DC Power supply Safety: 10...36V DC Ex, Safety Ex: 10...30V DC Max. Wires resistance 500Ω Alarm signal 21,6mA or 3,75 mA or setting by user Sensor current 0,25mA Accuracy ± 0,1% Time constant 0,2...1s Additional electronic damping 0...30s Ambient temperature -40...+85°C

Application and function

The temperature transmitter LI-24L is applicable to converting resistance of temperature or voltage of thermocouple sensor to standard current signal 4-20mA. The transmitters have two separate measuring channels enabling measurement of temperature difference, 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 HART/USB converter and Raport 2 configuration software.

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).

Alarm signal

Measuring range

Electrical diagrams 4 5

Version:

Sensor type

Ex, Safety, none

12,5mmx99mmx114,5mm

