

## Rail-mounted smart temperature transmitters type LI-24L



- √ 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





9	'I MI EX IA I MA	TECEN	EX Ia	т ма	
	II 1G Ex ia IIC T4/T5 Ga	IECEX	Ex ia	IIC T4/T5	Ga

## **Technical data**

Input signal		K, J, S, B, N, T, R, E voltage ht100, Pt200, Pt500, Pt1000, Ni100, Cu100, resistance
Limit process		- 10mV< E<100mV or -100mV< E<1000mV 2 <r<400ω 0ω<r<2000ω<="" or="" td=""></r<400ω>
Min. measur	ing range	10mV or 10Ω
Output signa	ıl	420mA + HART
Power supply	у	1036V DC Safety: 1036V DC Ex, Safety Ex: 1030V DC
N.A		•
Max. Wires r		500Ω
		r 3,75 mA or setting by user
Sensor curre	ent	0,25mA
Accuracy		± 0,1%
Time constar	nt	0,21s
Additional ele	ectronic damp	ing 030s
Ambient tem	perature	-40+85°C
Dimensions	(WxHxD)	12,5mmx99mmx114,5mm

## Application and function

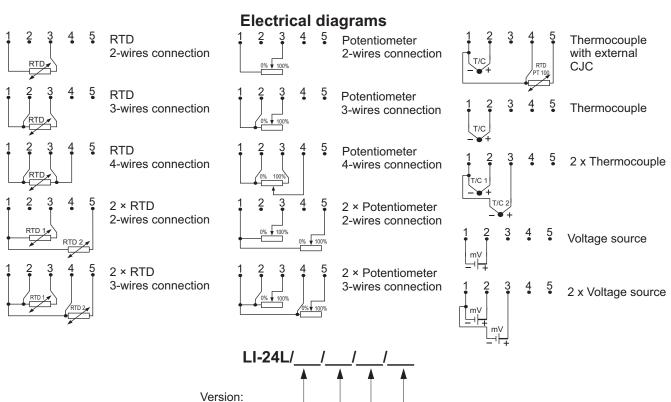
The temperature transmitter LI-24L is applicable to converting resistance of temperature or voltage of thermocouple sensor to standard current signal 4-20mA. The transmitters have two separate measuring channels enabling measurement of temperature difference, averange, averange with redundancy, max or 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



Ex, Safety, none

Sensor type