

- Resistance input Pt100, Ni100
- Output 0...20mA or 0...10V.
- Sensor break signalization.
- Pt100 linearization.
- High reliability and accuracy.
- Detachable, fast and reliable wire connectors.
- Slim, rail and fast click mounted housing.
- Single or dual independent channels.
- Special versions on request.

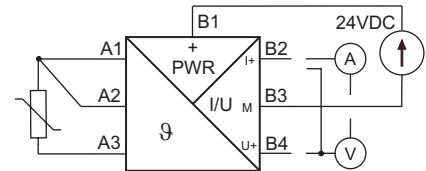
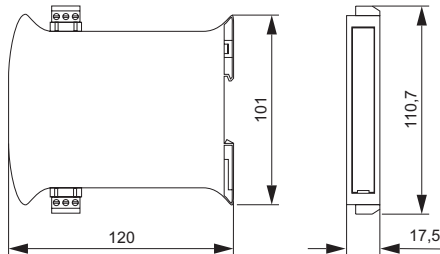


The LXR-800 temperature transducer converts temperature from the input sensor Pt100 / Ni100 to the output signal 0...20mA. Built-in, high precision resistor 500Ω allows for easy conversion current signal 0...20mA to the voltage 0...10V.

A device assures input wire resistance compensation for 3 wires connection.

The LXR-800 can operate with almost any resistive sensor but only Pt100 (Ptxxx) is linearized.

There is possibility to deliver device for non-standard signals on demand.



Order LXR-800 using the following code:

Channel 1 ——— Channel 2

LXR - 800 - □ □ □ □ - □ □ □ □

Input sensor	Pt100	P		
	Ni100	N		
Input span Pt100 and Ni100	-50... 50°C	0	1	
	0... 50°C	0	2	
	0...100°C	0	3	
Input span Pt100 only	0...150°C	0	4	
	0...200°C	0	5	
	0...250°C	0	6	
	0...300°C	0	7	
	0...400°C	0	8	
	0...500°C	0	9	
	0...600°C	1	0	
Sensor break signalization	0...800°C	1	1	
	Min			0
	Max			1

Notes :

1. Single channel version - specify only channel 1, eg. *LXR - 800 - P030*.
2. Order code for channel 2 specify like for channel 1.

**Input**

■ Pt100, Ni100	-50...800°C
■ sensor current	~ 0.5mA
■ input line resistance	≤ 100Ω/wire
■ input line resistance variation influence	≤ 0.005%/Ω

**Output**

■ output signal	
- current	0...20mA
- voltage (built-in resistor 500Ω, 0.1%)	0...10V
■ permissible load resistance	
- current output	≤ 500Ω
- voltage output	≥ 1MΩ
■ load variation influence	
- current output	≤ 0.15%
- voltage output	≤ 0.05%
■ sensor break indication	
- max	22mA...30mA or 11...15V
- min	0mA or 0V

**General data**

■ basic accuracy	≤ 0.1%
- span ≥ 600°C	≤ 0.2%
■ response time (10...90%)	≤ 0.2 s
■ warm up time	15min

**Power supply**

■ supply voltage	
- nominal	24V DC
- supply voltage range	20...30V DC
■ supply current	≤ 30mA
■ supply voltage variation influence	≤ 0.03%

**Temperature**

■ operating temperature	0...70°C
■ temperature influence	≤ 0.01%/°C

**Environment conditions**

■ storage temperature	-20...85°C
■ humidity (non-condensing)	≤ 90%
■ working position	any

**Housing**

■ material	molded PC/ABS
■ protection housing/terminals	IP20/IP20
■ wire connections	plugs with screw terminals 1.5mm <sup>2</sup>
■ dimensions	see drawings on the first page
■ weight (single / dual channel)	~ 80g / 110g