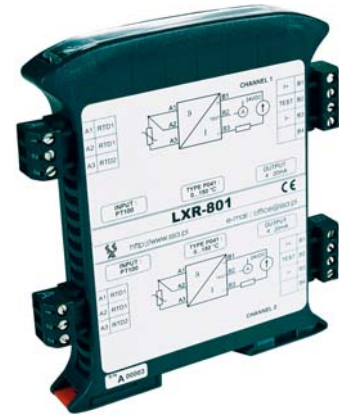
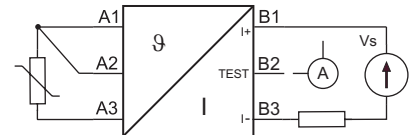
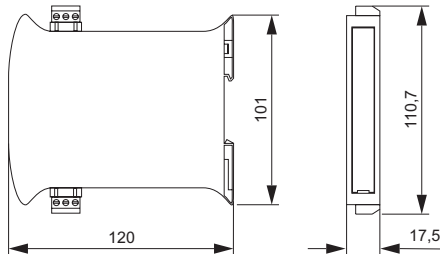


- Resistance input - Pt100, Ni100
- Current output 4...20 mA (current loop).
- Sensor break signalization.
- Pt100 linearization.
- High reliability and accuracy.
- Detachable, fast and reliable wire connectors.
- Slim, rail and fast click mounted housing.
- Single or dual independent channels.
- Special versions on request.



The LXR-801 transducer converts temperature from the input sensor Pt100 / Ni100 to the output signal 4...20mA. A device works as a current loop regulator. The LXR-801 is self powered from the current loop. A device assures input wire resistance compensation for 3 wires connection. The LXR-801 can operate with almost any resistive sensor but only for Pt100 (Ptxxx) is linearized . There is possibility to deliver device for non-standard signals on demand.



Order LXR-801 using the following code:

Channel 1 ——— Channel 2

LXR - 801 - □ □ □ □ - □ □ □ □

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

Notes :

1. Single channel version - specify only channel 1, eg. *LXR - 801 - P030*.
2. Order code for channel 2 specify like per 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	4...20mA
■ permissible load resistance (RI)	see load diagram
■ load variation influence	≤ 0.03%
■ sensor break indication	
- max	22mA...30mA
- min	≤ 3.6mA

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 (Vs)	8...30 VDC
■ supply voltage variation influence	≤ 0.03%
■ permissible ripple	≤ 4V _{pp} , 50Hz

Temperature

■ operating temperature	0...70°C
■ temperature influence	≤ 0.005%/°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 ²
■ dimensions	see drawings on the first page
■ weight (single / dual channel)	~ 80g / 110g

Diagrams

