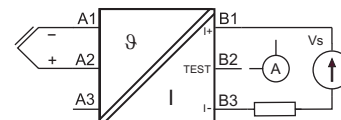
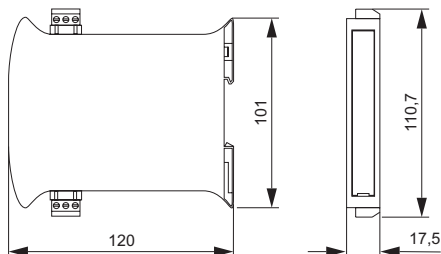


- Input - B, J, K, N, R, S, mV
- Current output 4...20 mA (current loop).
- Galvanic separation input/output.
- Sensor break signalization.
- All sensors linearization.
- High reliability and accuracy.
- Single or dual independent channels.
- Detachable, fast and reliable wire connectors.
- Slim, rail and fast click mounted housing.
- Special versions on request.

3 years warranty



The LXU-811 transducer converts temperature from the thermocouple B, J, K, N, R, S, T type or mV signal to the output current signal 4...20mA. A device works as a current loop regulator with galvanic separation between an input sensor and the output. LXU-811 is self powered from the current loop. A device assures cold junction compensation for all thermocouples. There is possibility to deliver device for non-standard signals on demand.



Order LXU-811 using the following code:

LXU - 811 - □ □ □ □ □ ( - □ □ □ □ □ ) \*

Input sensor		Standard thermocouple	Sensor break indication	
			0 Min	1 Max
Voltage (mV)	V	T	A	Auto
			0	0°C
On request	X	J	0 1	-50...50°C
		K	0 1	0...50°C
		N	0 2	0...100°C
		R	0 3	0...150°C
		S	0 4	0...200°C
		B	0 5	0...250°C
		T	0 6	0...300°C
			0 7	0...400°C
			0 8	0...500°C
			0 9	0...600°C
			1 0	0...800°C
			1 1	0...1000°C
			1 2	0...1200°C
			1 3	0...1400°C
	1 4	0...1600°C		

Input span

Notes:

1. If input signal is voltage, specify required span.
2. (...)\* Order code for channel 2 specify as per channel 1.

**Input**

- J, K, N, S, R, B, voltage -35...150 mV
- voltage source internal resistance  $\leq 1\text{k}\Omega$
- voltage source internal resistance variation infl.  $\leq 0.1\%/k\Omega$

**Output**

- output signal 4...20 mA (may be inverted)
- permissible load resistance (RI) see load diagram
- load variation influence
- sensor break indication 3.7mA or 22 mA

**General data**

- basic accuracy  $\leq 0.1\%$   
- or larger value / accuracy (range) /  $10\mu\text{V}$  (35mV);  $13\mu\text{V}$  (75mV);  $16\mu\text{V}$  (150mV)
- response time (10...90%)  $\leq 1\text{s}$
- cold junction compensation (CJC)  $\leq 0.5^\circ\text{C}$
- galvanic separation (test) 1.5kV AC, 50Hz, 1min
- warm up time 15min

**Power supply**

- supply voltage ( $V_s$ ) 10...30 VDC
- supply voltage variation influence  $\leq 0.03\%$
- permissible ripple  $\leq 4V_{pp}$ , 50Hz

**Temperature**

- operating temperature  $0...70^\circ\text{C}$
- temperature influence  $\leq 0.01\%/^\circ\text{C}$
- temperature influence for CJC  $\leq 0.1\%/^\circ\text{C}$

**Environment conditions**

- storage temperature  $-20...85^\circ\text{C}$
- humidity (non-condensing)  $\leq 90\%$
- working position any

**Housing**

- material molded PC/ABS
- protection housing/terminals IP20/IP20
- wire connections plugs with screw terminals  $1.5\text{ mm}^2$
- dimensions see drawings on the first page
- weight (single / dual channel)  $\sim 100\text{g} / 140\text{g}$

**Diagrams**