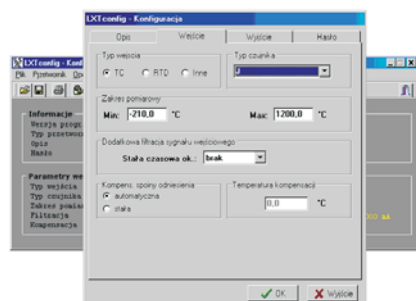
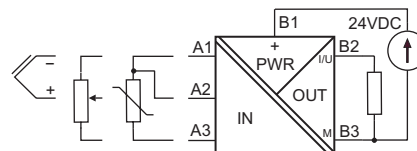
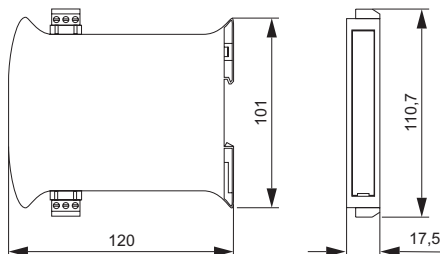


- All parameters programmable.
- Resistance input - Pt100, Ni100, Cu100, Pt1000,  $\Omega$ , potentiometer.
- Voltage input - B, J, K, N, R, S, mV
- Current output 0...5 mA, 0...20 mA, 4...20 mA.
- Voltage output 0...5 V, 0...10 V.
- Galvanic separation input/output.
- Sensor break signalization.
- All sensors linearization.
- High reliability and accuracy.
- Detachable, fast and reliable wire connectors.
- Slim, rail and fast click mounted housing.
- Special versions on request.

3 years  
warranty

The LXT-81U-S temperature transducer converts temperature from an input sensor to the output signal 0...5mA, 0...20mA, 4...20mA, 0...5V or 0...10V with galvanic separation between an input sensor and the output. A device assures cold junction compensation (if thermocouple is connected as input signal) or it makes input wire resistance compensation (if resistive element is connected). LXTconfig software is dedicated for setting sensor type, measurement range, sensor break signalization, output signal, fine calibration and it allows to define custom sensor characteristic. There is possibility to deliver device for non-standard signals on demand.



LXTconfig is a software dedicated for easy configuration of the device. It runs on PC computer and requires Windows operating system.

Features of the software:

- easy menu,
- read current configuration of a device,
- read/write configuration setting from/to a file,
- configuration printout,
- password (optional) against any changes,
- input signal simulation (monitor mode),
- data logging to a file in the CSV format (easy import into MS Excel),
- graphical chart logged data,
- chart printout.

Order LXT-81U-S using the following code:

LXT - 81U - S

**Input**

■ Pt100, Ni100, Cu100, Pt1000, resistance, potentiometer	0...1600Ω
■ J, K, N, S, R, B, voltage	-35...150mV
■ sensor current	~ 0.35mA
■ input line resistance	≤ 10 Ω/wire
■ input line resistance variation influence	≤ 0.005%/Ω
■ voltage source internal resistance	≤ 1kΩ
■ voltage source internal resistance variation infl.	≤ 0.1%/kΩ

**Output**

■ output signal	0...20mA, 0...10V (may be inverted)
- subranges	0...5mA, 4...20mA, 0...5V (may be inverted)
■ load resistance	
- current output	≤ 500Ω
- voltage output	≥ 10kΩ
■ load variation influence	≤ 0.05%
■ sensor break indication	0...22mA / 0...11V

**General data**

■ basic accuracy (larger value)	≤ 0.1%
- resistance input / accuracy (range) /	0.1Ω (200Ω); 0.13Ω (400Ω); 0.16Ω (800Ω); 0.2Ω (1600Ω)
- voltage input / accuracy (range) /	10μV (35mV); 13μV (75mV); 16μV (150mV)
■ response time (10...90%)	≤ 1s
■ cold junction compensation (CJC)	≤ 0.5°C
■ galvanic separation (test)	1.5kV AC, 50Hz, 1min
■ warm up time	15min

**Power supply**

■ supply voltage	
- nominal	24V DC
- supply voltage range	20...30V DC
■ supply current	≤ 35mA
■ supply voltage variation influence	≤ 0.03%

**Temperature**

■ operating temperature	0...70°C
■ temperature influence	≤ 0.01%/°C
■ temperature influence for CJC	≤ 0.1%/°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	~ 100g

Programming accessories:

1. Configuration software LXTconfig.  
LXTconfig allows for configuration and calibration of a device. The newest version may be downloaded from [www.ssa.pl](http://www.ssa.pl). Software is free of charge.
2. Converter RS232/LXT.  
Converter is used for communication between PC and devices like LXT and SXT.

