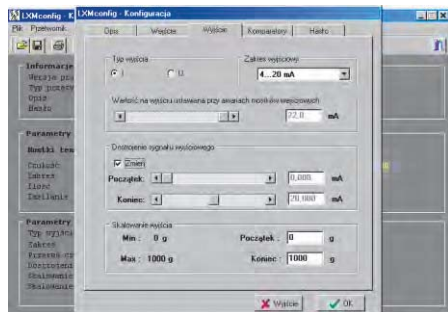
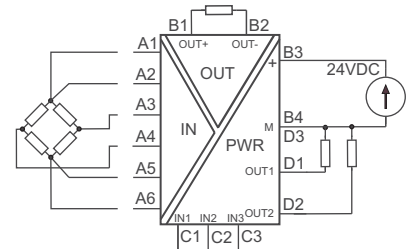
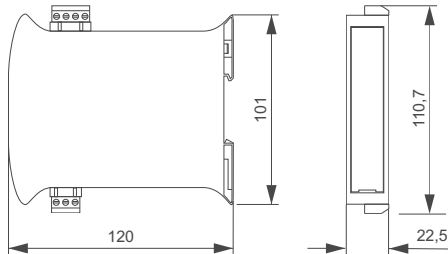


- All parameters programmable.
- Input for 1...8 load cells with 0.5...8mV/V sensitivity.
- AC cell excitation for high precision measurements.
- Current output 0...5mA, 0...20mA, 4...20mA.
- Voltage output 0...5V, 0...10V.
- Galvanic separation input/output/supply.
- Load cell break signalization.
- 2 independent comparator outputs.
- 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 LXM-91U weight transducer converts signal from a load cell to the output signal 0...5mA, 0...20mA, 4...20mA or 0...5V, 0...10V. A device assures full 3 ways galvanic separation between input, output and supply lines. LXMconfig software is dedicated for setting load cell parameters, means of excitation (AC/DC), mechanical gear ratio, filtering, measurement range, load cell break signalization, output signal, fine calibration and setting output comparators. Output comparators have latch-up, manual reset and high load capability for direct control of relays. AC load excitation allows for high precision input signal conversion without temperature and offset drifts. There is possibility to deliver device for non-standard output signals on demand.



LXMconfig 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),

Order LXM-91U using the following code:

LXM - 91U

Input

| | |
|------------------------------|------------------|
| ■ load cells | 1...8 (parallel) |
| ■ load cell sensitivity | 0.5...8mV/V |
| ■ total load cell resistance | 80...10'000Ω |
| ■ excitation voltage | 9V AC/DC |

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 | ≤ 0.03% |
| ■ sensor break indication | 0...22mA / 0...11V |

General data

| | |
|--|-------------------------------------|
| ■ basic accuracy (larger value) | |
| - load cell sensitivity 2, 4, 8 mV/V (exc. AC) | ≤ 0.06% |
| - other sensitivity (exc. AC) | ≤ 0.08% |
| - load cell sensitivity 2, 4, 8 mV/V (exc. DC) | ≤ 0.08% |
| - other sensitivity (exc. DC) | ≤ 0.1% |
| - ripple (exc. DC) | ≤ 3μV RMS added to the input signal |
| ■ response time (10...90%) | ≤ 0.2s |
| - fast mode response time | ≤ 0.2ms |
| ■ galvanic separation (test) | 0.5k VAC, 50Hz, 1min |
| ■ warm up time | 30min |

Power supply

| | |
|--------------------------------------|-------------|
| ■ supply voltage (Vs) - nominal | 24V DC |
| - supply voltage range | 20...30V DC |
| ■ supply current | ≤ 150mA |
| ■ supply voltage variation influence | ≤ 0.02% |

Binary inputs

| | |
|--------------------------|---------------------------|
| ■ input voltage off / on | -30...5V DC / 15...30V DC |
| ■ input current | ~ 3mA |

Binary outputs

| | |
|------------------|------------------------------|
| ■ output type | binary, open collector - PNP |
| ■ output voltage | ≥ Vs-1V |
| ■ output current | ≤ 0.5A |

Temperature

| | |
|-------------------------|-------------|
| ■ operating temperature | 0...50°C |
| ■ temperature influence | |
| - AC bridge supply | ≤ 0.008%/°C |
| - DC bridge supply | ≤ 0.02%/°C |

Environment conditions

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

Housing

| | |
|--------------------------------|---|
| ■ material | molded PC/ABS |
| ■ protection housing/terminals | IP20/IP20 |
| ■ wire connections | plugs with screw terminals 1.5mm ² |
| ■ weight | ~ 150g |

Programming accessories:

1. Configuration software LXMconfig.
LXMconfig allows for configuration and calibration of device. The newest version may be downloaded from www.ssa.pl. Software is free of charge.
2. Converter USB-LXT or RS232-LXT.
Converter is used for communication between PC and SSA devices like LXT, SXT and LXM.

