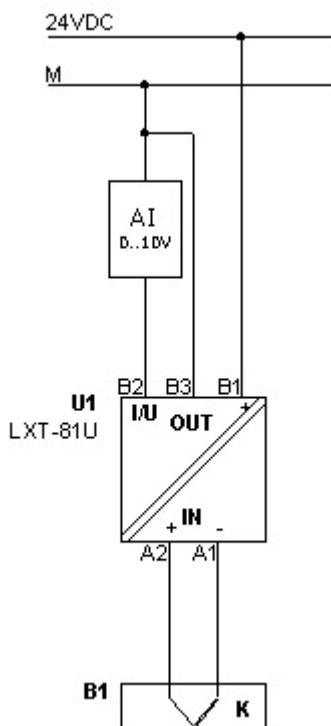


## Practical application of universal temperature transducers

Temperature converters are used to convert the signal from the thermocouple or RTD sensor to standard signals (0-20mA, 4-20mA, 0-10V) and bring them to devices which require such (eg. PLCs, data loggers, regulators etc.)

### OBJECT:

Temperature measurement in the range of 0-1000°C. Bringing a standard 0-10V signal to the PLC's analog input.



### MATERIALS:

The necessary elements for the implementation of the system:

- U1: universal temperature transducer LXT-81U,
- B1: K-type thermocouple,
- 24V DC power supply.

### REALIZATION:

1. Connect the circuit shown in the scheme.
2. Set the DIP1 switches on the front of LXT-81U-D:
  - [9] cold junction compensation: AUTO,
  - [1|2|3|4] measuring range: 0-1000°C,
  - [5|6|7|8] sensor type: K,
  - [10] sensor break alarm way: MAX.



3. Set the DIP2 switches on the front of LXT-81U-D:

- [1|2|3|4] output: 0-10V.

