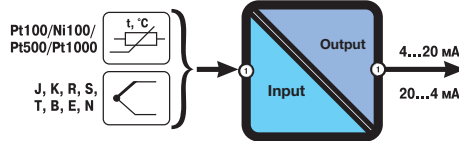


# T121

## ISOLATED LOOP POWERED TEMPERATURE TRANSMITTER (IN HEAD MOUNTING)



T121 is a converter for Thermoresistance (mA, mV, Pt100, Pt1000, Pt500, Ni100, TCs, Ohm) with 2,3,4 wires and convert / isolate it into 4..20mA loop powered signal. It's completely configurable through PC software. T121 is suitable for in-head mounting (RTD or TC). A 2-way galvanic isolation among input // output circuits assures the integrity of your datas.

### TECHNICAL SPECIFICATIONS

#### General Data

|                       |  |
|-----------------------|--|
| Power supply          | 7..30 Vdc (loop powered)   |
| Power consumption     | 500 mW   |
| Isolation             | 1.500 Vac (2 way)  |
| Power transducers     | -  |
| Accuracy              | 0,1%   |
| Response time         | < 620 ms   |
| Settings              | Easy-LP (PC software)  |
| Mounting              | In-Head mounting (PT100)<br>Available adapter for DIN RAIL guide |
| Protection Degree     | IP20   |
| Operating Temperature | -40..+85 °C  |
| Dimension             | Ø 43,7 x 20 mm   |

#### Input

|                 |  |
|-----------------|--|
| Channel Numbers | 1  |
| RTD             | Pt100 (EN 60751/A2, -200..+650°C, min span 20°C)<br>Ni100 (-60..+250°C, min span 20°C)<br>Pt500 2,3,4 wires, range -200... 650 °C<br>Pt1000 2,3,4 wires, range -200... +200°C<br>TC: J, K, R, S, T, B, E, N<br>Potentiometer: 450..1.800 ohm<br>Voltage: -150..+150 mV |

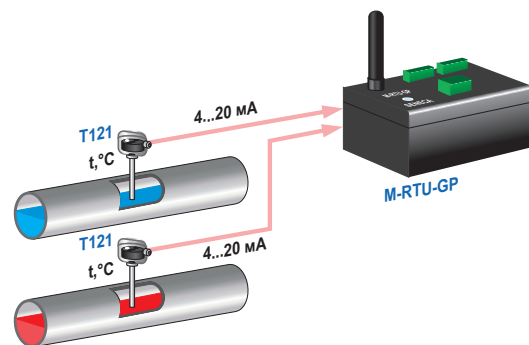
#### Output

|                 |   |
|-----------------|---|
| Channel Numbers | 1   |
| Current         | CURRENT (mA)<br>4..20, 20..4 mA (2 wire)<br>Resolution 2µA = 13 bit = 0.0125% |

#### Standard

|          |  |
|----------|--|
| Approval | CE   |
| Norms    | EN 50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4; EN 50140/141; EN 61010-1 |

### APPLICATION NOTE






### ORDER CODES

| Code | Description  |
|------|--|
| T121 | Isolated loop powered temperature transmitter (in head mounting), Power supply 7..30 Vdc |

### ACCESSORIES & SOFTWARE

|  |   |   |
|--|---|---|
|  |  |  |
| <b>EASY USB</b><br>USB ↔ UART TTL CONVERTER<br>pg. 50                                | <b>EASY_LP</b><br>Programming software<br>pg. 114                                     | <b>PM002780</b><br>FLEX DIN<br>-  |

### SIMILAR PRODUCTS

|  |   |   |
|--|---|---|
|  |                        |  |
| <b>K121</b><br>Isolated loop powered isolator/ universal converter<br>pg. 102        | <b>Z109REG2</b><br>Universal converter to DC current/voltage isolator converter with alarm output<br>pg. 78 | <b>K120RTD</b><br>Pt100, Ni100 loop powered converter<br>pg. 109                      |