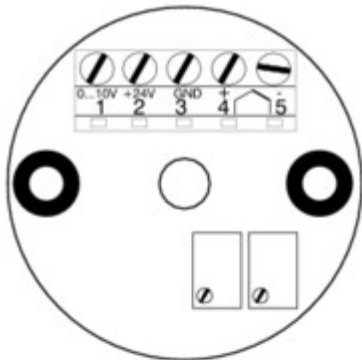


Components and accessories

Transmitter

Transmitter LKM 102



∅ 44 mm
26,5 mm high



In-head transmitter LKM 102 for thermocouples with output signal 0...10V for mounting in connection heads form B

The LKM 102 is an analog transmitter for thermocouples according to DIN EN 60584 and DIN43710. It is suitable for direct connection to evaluation devices with voltage input such as PLCs or AD converter cards in PCs. The thermoelectric voltage generated by the sensor is converted into an output signal of 0...10V. The temperature compensation takes place in the transmitter itself. The transmitter type 102 is delivered calibrated according to customer specifications. Depending on the measuring range and the type of thermocouple, the adjustment is carried out in such a way that the occurring temperature errors are minimized. Smaller corrections can be carried out on site by means of a zero and span controller. The LKM 102 can also be supplied voltage linear adjusted for further processing and linearization of the measured values in a PLC or a PC.

* depends on thermocouple

Input

Thermocouples K, J (L), T (U), N, E
S and B with higher fault

Output

0...10V short-circuit-proof

Range

> 200 °C*

Zero point

> -270 °C*

Loop voltage

10...35VDC, reverse protection

Sensor fracture

>10V

Shorted Sensor

ambient temperature

Permissible ripple

< 10 %

Reaction time

< 0.1s

Vibration

5g/10-200Hz

Components and accessories

Transmitter

Transmitter LKM 102

Linearity error

< 1 % FS*

Error of compensation

<±0.5°C

TCR

< 100 ppm/°C

Operating temperature range

-25 °C ... +85 °C

Terminal type

screw terminal

Clamping range

0.13...1.5mm²

Humidity

< 95%

EMC emission

EN 61000-6-3:2001

EMC interference rejection ratio

EN 61000-6-3:2001

Mounting

B-Head

Current consumption

max. 10 mA

Supply voltage

15...35V DC reverse protection

Dimension

44mm x 26,5mm (DxH)

Sealing compound

Polyurethan, black

Weight

approx. 30g