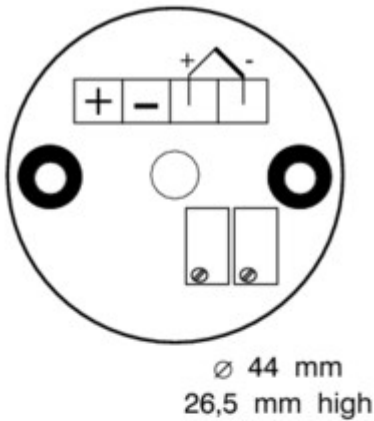


Components and accessories

Transmitter

Transmitter LKM 101



In-head transmitter LKM 101 for thermocouples with output signal 4...20mA for mounting in connection heads form B

The LKM 101 is an analog transmitter for various thermocouples according to DIN EN 60584 or DIN 43710. It converts the temperature-dependent thermoelectric voltages of the sensors into a standard current signal of 4...20mA. The temperature compensation takes place in the transmitter itself. It is delivered from the factory calibrated to customer specifications. Depending on the measuring range and thermocouple type, the temperature is adjusted in such a way that the temperature errors are minimized. Subsequent fine adjustment can be performed by means of span and zero controllers.

* depends on thermocouple

Input

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

Output

4...20mA current loop

Range

> 200 °C*

Zero point

> -270 °C*

Loop voltage

10...35VDC, reverse protection

Sensor fracture

>20 mA

Shorted Sensor

ambient temperature

Permissible ripple

< 10 %

Reaction time

< 0.1s

Vibration

5g/10-200Hz

Linearity error

< 1 % FS*

Error of compensation

<±0.5°C

TCR

< 100 ppm/°C

Components and accessories

Transmitter

Transmitter LKM 101

Operating temperature range

-25 °C ... +85 °C

Terminal type

screw terminal

Clamping range0.13...1.5mm²**Humidity**

< 95%

EMC emission

EN 61000-6-3:2001

EMC interference rejection ratio

EN 61000-6-3:2001

Mounting

B-Head

Dimension

44mm x 26,5mm (DxH)

Sealing compound

Polyurethan, black

Weight

approx. 30g