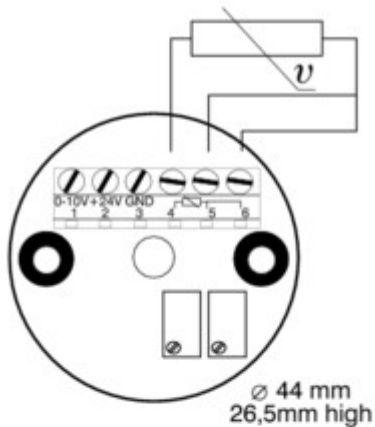


## Components and accessories

### Transmitter

#### Transmitter LKM 104



In-head transmitter LKM 104 for resistance thermometers Pt100/Pt1000 with output signal 0...10V for mounting in connection heads form B

The LKM 104 is an analog transmitter for Pt100 / Pt1000 resistance thermometers according to DIN EN 60751. It is suitable for direct connection to evaluation devices with voltage input such as PLCs or AD converter cards in PCs. It converts the temperature-dependent resistance signal of the sensor into a temperature-linear output signal of 0...10V with high accuracy. Versions for other resistance sensors are available on request. The transmitter type 104 is delivered calibrated according to customer specifications. Minor corrections can be made on site by means of a zero and span controller. The sensor is connected in a 3/2-wire circuit. Lead resistances are largely compensated in the 3-wire circuit if all 3 leads have the same resistance value. In the 2-wire circuit, a correction of the lead resistance can be made by means of the zero potentiometer.

\* depends on sensor

#### Input

Pt100/Pt1000, 2-/3 wire circuit

#### Output

0 ... 10V

#### Range

20 °C ... 850 °C\*

#### Zero point

-200 °C ... +600 °C\*

#### Test current

0.8 ... 1mA\*

#### Sensor fracture

>10V

#### Shorted Sensor

0V

#### Permissible ripple

< 10 %

#### Reaction time

< 0.1s

#### Vibration

5g/10-200Hz

#### Linearity error

<0.1% FS

Components and accessories

Transmitter

Transmitter LKM 104

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**TCR**

< 100 ppm/°C

**Operating temperature range**

-25 °C ... +85 °C

**Terminal type**

screw terminal

**Clamping range**

0.13...1.5mm<sup>2</sup>

**Humidity**

< 95%

**EMC emission**

EN 61000-6-3:2001

**EMC interference rejection ratio**

EN 61000-6-3:2001

**Mounting**

B-Head

**Supply voltage**

21 ... 27 VDC / 15mA

**Dimension**

44mm x 26,7mm (DxH)

**Sealing compound**

Polyurethan, black

**Weight**

approx. 30g