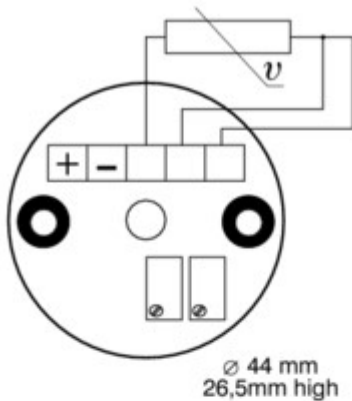


## Components and accessories

### Transmitter

#### Transmitter LKM 103



In-head transmitter LKM 103 for resistance thermometers Pt100/Pt1000 with output signal 4...20mA for mounting in connection heads form B

The LKM 103 is an analog transmitter for Pt100 / Pt1000 resistance thermometers according to DIN EN 60751. It converts the temperature-dependent resistance of the sensor into a current signal of 4...20mA in a highly accurate temperature-linear way. Versions for other resistance sensors are available on request. Type 103 is supplied calibrated to the range specified by the customer. The fine adjustment is done by a span and zero controller. Minor corrections on site are therefore easily possible. Lead resistances are largely compensated for with Type 103 in a 3-wire circuit, provided that all leads have the same lead resistance. Please note by using Pt100 in 2-wire connection clamps 4 and 5 have to be jumpered.

\* depends on sensor

#### Input

Pt100/Pt1000, 2-/3 wire circuit

#### Output

4...20mA current loop

#### Range

20 °C ... 850 °C\*

#### Zero point

-200 °C ... +600 °C\*

#### Loop voltage

10...35VDC, reverse protection

#### Test current

0.8 ... 1mA\*

#### Sensor fracture

>20 mA

#### Shorted Sensor

< 4 mA

#### Permissible ripple

< 10 %

#### Reaction time

< 0.1s

#### Vibration

5g/10-200Hz

#### Linearity error

<0.1% FS\*

Components and accessories

Transmitter

Transmitter LKM 103

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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

**Dimension**

44mm x 26,5mm (DxH)

**Sealing compound**

Polyurethan, black

**Weight**

approx. 30g