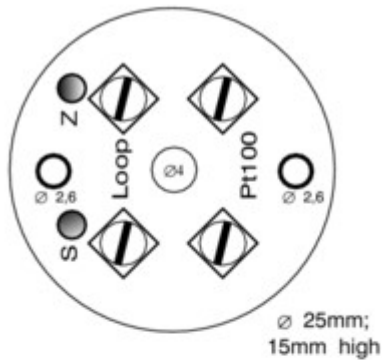


Components and accessories

Transmitter

Transmitter LKM 143



In-head transmitter LKM 143 for Pt100 / Pt1000 with output signal 4...20mA for mounting in connection heads form J

The LKM 143 is an analog measuring transmitter for Pt100 / Pt1000 measuring resistors 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. The LKM 143 can be calibrated to the range specified by the customer. The fine adjustment is done by a span and zero controller. Minor corrections on site are thus easily possible. The distance of the mounting holes is specified with 19mm.

* depends on sensor

Input

Pt100/Pt1000, 2 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

TCR

< 100 ppm/°C

Operating temperature range

-25 °C ... +85 °C

Components and accessories

Transmitter

Transmitter LKM 143

Terminal type

screw terminal

Clamping range0.13...0.75mm²**Humidity**

< 95%

EMC emission

EN 61000-6-3:2001

EMC interference rejection ratio

EN 61000-6-3:2001

Mounting

J-head

Dimension

25 mm x 15 mm (DxH)

Sealing compound

Polyurethan, black

Weight

approx. 10g