

Components and accessories

Transmitter

Transmitter LKM 232



DIN rail transmitter LKM 232 for thermocouples with output signal 0...10V, with galvanic isolation

The LKM 232 is an analog transmitter for thermocouples according to DIN EN 60584 and DIN 43710. It converts the temperature-dependent thermoelectric voltage linearly into a voltage of 0...10V. The transmitter type 232 is designed for rail mounting. It has galvanic isolation between input and output. The transmitter is supplied from the factory calibrated to customer specifications. A span and zero controller enables subsequent fine adjustment.

* depends on thermocouple

Protection classification

IP 20 according DIN 60529

Input

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

Output

0 ... 10V

Range

> 200 °C*

Zero point

-200 °C ... +600 °C*

Sensor fracture

>10V

Shorted Sensor

ambient temperature

Permissible ripple

< 10 %

Reaction time

< 0.1s

Vibration

5g/10-200Hz

Insulation voltage

1 kV

Linearity error

<0.1% FS*

Error of compensation

<±0.5°C

TCR

< 100 ppm/°C

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Operating temperature range

-25 °C ... +85 °C

Terminal type

screw terminal

Clamping range0.2...2.5mm²**Humidity**

< 95%

EMC emission

EN 61000-6-3:2001

EMC interference rejection ratio

EN 61000-6-3:2001

Mounting

35mm DIN rail

Current consumption

max. 40 mA

Supply voltage

24VDC ±10%

Case

EMG25-LG

Case material

Polycarbonat

Case dimension (HxWxD)

75 x 25 x 53 mm

Weight

approx. 60g