

## Components and accessories

### Transmitter

#### Transmitter LKM 224



DIN rail transmitter LKM 224 for Pt100 / Pt1000 resistance thermometers with output signal 0...10V

The LKM 224 is an analog transmitter for Pt100, Pt1000 temperature sensors according to DIN EN 60751. Events for mounting on the 35mm DIN-rail. It converts the temperature-dependent resistance signal of the sensors into an output voltage signal of 0...10V. The output signal is highly accurate temperature linear. The transmitter is delivered from the factory calibrated to customer specifications. A span and zero controller allows subsequent fine adjustment. The influence of lead resistances is eliminated by using a 3-wire circuit. A larger distance between sensor and transmitter is therefore possible without loss of accuracy. All three leads should be as long as possible and made of the same conductor material with the same cross-section. The transmitter can also be used in a 2-wire circuit. The lead resistance of the sensors can be compensated by means of the zero point controller.

\* depends on sensor

#### Output

0 ... 10V

#### Range

> 20 °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

#### TCR

< 100 ppm/°C

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**Operating temperature range**

-25 °C ... +85 °C

**Terminal type**

screw terminal

**Clamping range**

0.2...2.5mm<sup>2</sup>

**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**

15...35V DC reverse protection

**Case**

EMG25-LG

**Case material**

Polycarbonat

**Case dimension (HxWxD)**

75 x 25 x 53 mm

**Weight**

approx. 60g