

Components and accessories

Transmitter

Transmitter LKM 214



DIN rail transmitter LKM 214 for Pt100 / Pt1000 resistance thermometers with output signal 0...10V

The LKM 214 is an analog transmitter for Pt100 / Pt1000 temperature sensors according to DIN EN 60751. It can be mounted on the 35mm top-hat rail. The temperature-dependent resistance signal of the sensors is converted 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 4-wire circuit. A larger distance between sensor and transmitter is therefore possible without loss of accuracy. The transmitter can also be used in a 2- or 3-wire circuit.

* depends on sensor

Input

Pt100/Pt1000, 2-/3-/4 wire circuit

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 %

Vibration

5g/10-200Hz

Linearity error

<0.1% FS

TCR

< 100 ppm/°C

Operating temperature range

-25 °C ... +85 °C

Terminal type

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screw terminal

Clamping range

0.2...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. 20mA

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