

Components and accessories

Transmitter

Transmitter LKM 213



DIN rail transmitter LKM 213 for Pt100 / Pt1000 resistance thermometers with output signal 4...20mA

The LKM 213 is an analog transmitter for Pt100 / Pt1000 temperature sensors according to DIN EN 60751. It converts the temperature-dependent resistance signal of the sensors into a standard signal of 4...20mA. The output signal is highly accurate temperature linear. The transmitter is delivered from the factory calibrated to customer specifications. 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-/3-wire circuit.

* depends on sensor

Input

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

Output

4...20mA current loop

Range

> 20 °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

Components and accessories

Transmitter

Transmitter LKM 213

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

Case

EMG25-LG

Case material

Polycarbonat

Case dimension (HxWxD)

75 x 25 x 53 mm

Weight

approx. 60g