

Components and accessories

Transmitter

Transmitter LKM 212



DIN rail Transmitter LKM 212 for thermocouples with output signal 0...10V

The LKM 212 is an analog transmitter for rail mounting. It can be designed for different thermocouples according to DIN EN 60584 or DIN 43710. It converts the temperature-dependent thermoelectric voltage of the sensors into an output voltage signal of 0...10V. The temperature compensation takes place in the transmitter itself. It is delivered from the factory calibrated to customer specifications. Depending on the measuring range and thermocouple type, the adjustment is carried out in such a way that the occurring temperature errors are minimized. A voltage-linear adjustment for further processing of the measured values in the PC or PLC can also be carried out. This should be specified when ordering. A span and zero controller enables subsequent fine adjustment.

* depends on thermocouple

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

Linearity error

<0.1% FS*

Error of compensation

<±0.5°C

TCR

Components and accessories

Transmitter

Transmitter LKM 212

< 100 ppm/°C

Operating temperature range

-25 °C ... +85 °C

Terminal type

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

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