

LKM273 FOR PT100/PT1000

Digital configurable measuring transducer to mount on 35-mm rail with current output of 4 to 20 mA and a supply voltage of 24 V

The LKM273 is a digital configurable measuring transducer for Pt100/Pt1000 with a 4 to 20 mA current output. The transducer is designed for installation on a 35-mm top hat rail. Use 4 DIP switches to set 13 different measuring ranges. Minor corrections can be carried out with the zero point controller. The sensor is connected with a 3-/2-lead circuit. The sensor is detected automatically.

The following measuring ranges can be configured:

-100 to 100 °C	-20 to 150 °C	0 to 300 °C
-50 to 50 °C	0 to 50 °C	0 to 400 °C
-40 to 60 °C	0 to 100 °C	0 to 500 °C
-30 to 70 °C	0 to 200 °C	0 to 600 °C
		0 to 250 °C



TECHNICAL DATA

Input:	Pt100/Pt1000	self - detecting, 2-/3- wire circuit
Overall measuring range:	Pt100: -100 to 600 °C Pt1000: -100 to 300 °C	adjustable via DIP-switch
Measurement current:	0.25 mA	
Current consumption:	max. 21 mA	
Loop voltage:	10 to 35 VDC	polarity - safe
Linearity error:	0.1 %FS	
Resolution:	14 bit	
Measuring accuracy:	0.3 %	of measured range
Measuring rate:	2/s	
Output:	4 to 20 mA	
Probe break:	>20 mA	
Short circuit:	<4 mA	
Clamping range:	screw clamps	0.2 to 2.5 mm ²
Temperature coefficient:	<0.015 K/°C	set temperature range 0 to 100 °C
Operating temperature range:	-25 to 70 °C	
Dimension:	75 x 25 x 52 mm	H x W x D
Weight:	appr. 60 g	
EMC:	EN 61326-1:2006 EN 61326-2-3:2006	Emission and Resistance to Interference

