

LKM406 FOR PT100/PT1000

The LKM 406 is an analogue transducer for Pt100/Pt1000 sensors acc. DIN EN 60751. The temperature sensitive resistance will be transformed into a precise, temperature-linear current output of 4..20mA. The transducer LKM 406 is tuned acc. customized needs ex works. Further fine-tuning can be arranged by span and zero controller.

If the LKM406 operated in 3-wire connection the resistance of the leads does not affect the results measured, if the input leads are of equal length and are made of the same conducting material. The transmitter is fixed on the top of a connector (Hirschmann type GSP). On the basis of the build it is adapted for installation in tube bodies. The connector is very widespread in the industry. With this arrangement we are able to produce low cost and custom probes with transmitter. You will find more technical data and diffuse for circuit in the instruction manual. For a higher vibration resistance you can offer the LKM406 encapsulate with Polyurethane. You can offer the LKM406 also without connector.



TECHNICAL DATA

Input:	Pt100/Pt1000	2-/3-wire circuit
Measuring current:	appr. 0,8 mA	
Zero:	-200..500°C	
Span:	20..850 K	
Linearity error:	<0,1% FS	
Loop voltage:	10..35VDC	with security against polarity reversal
Output:	4..20mA	current loop
Probe break:	>20mA	
Short circuit:	<4mA	
Reaction time:	<0.1s	
Temp. coefficient:	<100ppm/°C	
Operating temp range:	-40..85°C	
Humidity:	<95% relative humidity	
Connection of loop:	Connector Hirschmann type GSP	Pole 1 (+) and 2 (-), M12 available
Connection of sensor:	exposed soldering contacts	
Deviation of circuit board from perpendicular position:	5°	
Mounting:	pipes for mounting	
Optional sealing compound:	polyurethane black	
Dimensions of circuit board:	26x15,5x12,5mm (not sealing)	
Weight:	appr. 10g	unsealed
EMC:	EN 61326-1:2006 EN 61326-2-3:2006	Emission and Stability

