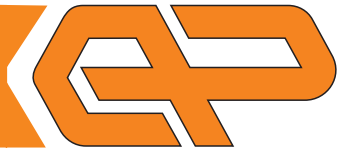


TEMPERATURE TRANSMITTER MP4201



Programmable temperature transmitter type MP4201 is used for mounting in terminal head form B (acc. to DIN 43729). It enables the 2-, 3- or 4-wire connection of Pt100 or Pt1000 temperature sensors. MP4201 transmits the resistance of temperature sensors (Pt100 or Pt1000) to standard current output 4...20mA.

Programming of the MP4201 transmitter (setting the measuring range, filters, etc.) is carried out through the current loop therefore the transmitter doesn't have to be removed from the terminal head in case of reprogramming of testing.

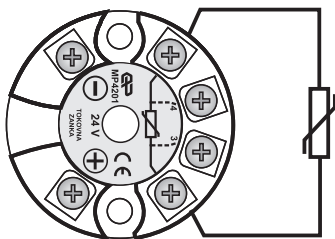
Programming of the MP4201 can be carried out from the distance of up to 100m (length of current loop cable).

Programming is done via programming device PNMP1¹ and EPKON² software.

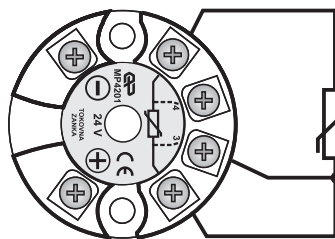


TEMPERATURE SENSOR CONNECTIONS

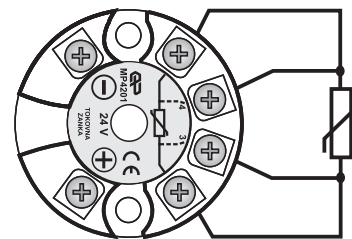
2-wire connection



3-wire connection

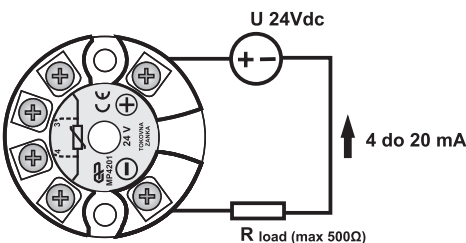


4-wire connection

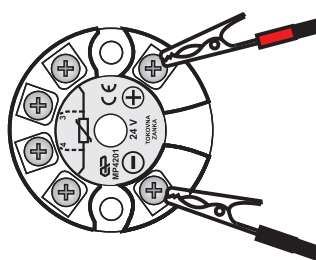


CURRENT LOOP CONNECTION AND PROGRAMMING

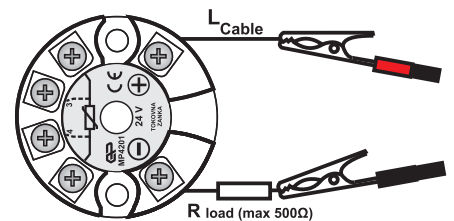
Current loop connection



Programming of transmitter



Testing the transmitter at a distance - $L_{\text{Cable}} \leq 100\text{m}$



WARNING: Before connecting the programming device PNMP1 disconnect the supply voltage from transmitter!

LIST OF DOCUMENTATION

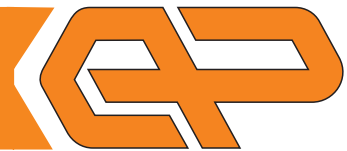
- Programming
- Datasheet
- Declaration of conformity

inst-EPKON
datasheet-MP4201
izCE-MP4201

Page:
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1) Programming device PNMP1 can be found on www.termomer.com or inquired upon when buying the transmitter.
2) You can download EPKON software free of charge from www.termomer.com.



TEMPERATURE TRANSMITTER MP4201**TECHNICAL DATA****Input**

Input	sensor Pt100/Pt1000	2-, 3- or 4- wire connection
Accuracy	<0,25°C	for measuring range < 250°C
Sampling period	1s	
Pt100, Pt1000 standard	IEC/DIN/EN 60751-2	
Sensor current	0,5mA	for Pt100
	0,25mA	for Pt1000
Probe short-circuit	<-225°C	
Probe break	>650°C	
Error detection delay	<10s	
Connection wire resistance compensation error	<0,02°C/Ohm	at 3-wire connection
Cable resistance	max. 15 ohm/wire	
Range limits	Pt100 -200°C .. 600°C	programmable
	Pt1000 -100°C .. 300°C	programmable
Minimum span	20°C	
Damping	50 and 60 Hz	
Filter	none ,1, 2, 5, 10, 30 sek	programmable
Resolution	15 bit	
Repeatability	<0,1°C	
Offset setting	max. ± 10°C	

Output

Output signal	4...20mA	2- wire
Accuracy	<0,1%	measuring range
Linearity	<0,1FS	
Supply voltage	10 .. 30 Vdc	2- wire
Probe break	3,5 mA or 21,5 mA	Namur NE43
Resolution	15 bit	
Damping	0 ... 30s	

Operating conditions and external features of the transmitter

Mounting	in terminal head	form B
Housing	ABS plastics	
Protection grade	IP 40	
Dimensions	Φ45 x 23mm	
Operating temperature	- 40 .. +80°C	
Humidity	<98%	no condensation

