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HEAD-MOUNT TRANSMITTER type TCHM

Start Co
P1100
800
CZAKI CZAKI
MALL THERMO-PRODUCT 05-14
-MMO-PRODUCT

output signal: 4 ... 20 mA
powered from current loop
for use with Pt100 sensors
2-wire Pt100 sensor connection
with or without sensor linearization
for mounting in type MA connection heads

The TCHM type transmitter converts the Pt100 sensor resistance into a 4...20mA current signal in the 2-wire system (power supply from current loop). It is designed for use with 2-wire Pt100 sensors. The electronic circuit of the transmitter provides high accuracy of conversion with low temperature drift and very good resistance to noise. It is widely used for temperature measurement in many branches of industry.

TECHNICAL DATA

Input sensor type		Pt100	Code	Range [°C]	
Measuring range		according to the table $^{(1)}$	10	-50 50	
Pt100 bias current		0,8 mA	15	0 50	
Accuracy ($T_A = 23^{\circ}C \pm 5^{\circ}C$)		0,15% of the range value	20	0 100	
Temperature drift		0,02% of the range value / °C	25	0 150	
Output signal		420 mA	30	0 200	
Sensor failure indication:	resistance too high	27±3 mA	35	0 300	
	resistance too low	2,2±0,5 mA	40	0 400	
Power supply		12 36 V DC / 30 mA	45	0 500	
Ambient temperature T		-20°C+70°C	50	0 600	
Dimensions (diameter x height) / weight		25 x 15 mm / ca. 12 g	55	0 700	
		20 x 10 mm/ 6a. 12 g	60	0 800	
⁽¹⁾ Other measuring ranges on demand					

ORDERING CODE (1) (2) (3) тснм 2 (1) **Output signal** 4 ... 20 mA, 2-wire arrangement (2) Sensor linearization 0 no 1 yes (according to table) (3) Measuring range 10 ... 60

Example for order:

TCHM-2130 means transmitter for range 0...200°C, with sensor linearization, for use with Pt100 temperature sensor, output current 4...20 mA, powered from current loop.