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## **HEAD-MOUNT TRANSMITTER** type TCHF



output signal: 4 20 mA
powered from current loop
for use with Pt100 sensors
2-wire or 3-wire Pt100 sensor connection
with or without sensor linearization
for mounting in type R connection heads

TCHF type transmitter converts the Pt100 sensor resistance into a 4...20mA current signal on the 2-wire system (power supply from current loop). It is designed for use with 2-wire or 3-wire Pt100 sensors. The electronic circuit of the transmitter allows 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 Measuring range according to the table (1) Pt100 bias current 0,8 mA Accuracy ( $T_A = 23^{\circ}C \pm 5^{\circ}C$ ) 0,15% of the range value Temperature drift 0,02% of the range value /  $^{\circ}\text{C}$ Output signal 4...20 mA Sensor failure indication: resistance too high  $27 \pm 3 \text{ mA}$ resistance too low  $2,2\pm0,5 \text{ mA}$ 12 ... 36 V DC / 30 mA Power supply  $-20^{\circ}C...+70^{\circ}C$ Ambient temperature T<sub>A</sub> Dimensions (diameter x height) / weight 42 x 20 mm / ca. 50 g

Code	Range [°C]		
10	-50 50		
15	0 50		
20	0 100		
25	0 150		
30	0 200		
35	0 300		
40	0 400		
45	0 500		
50	0 600		
55	0 700		
60	0 800		

## ORDERING CODE

(1) Output signal 2 4 ... 20 mA, 2-wire system (2) Sensor linearisation 0 no

0 no 1 yes

(3) Measuring range 10 ... 60 (according to the table)

**Example for order**: TCHF-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.

<sup>(1)</sup> Other measuring ranges on demand