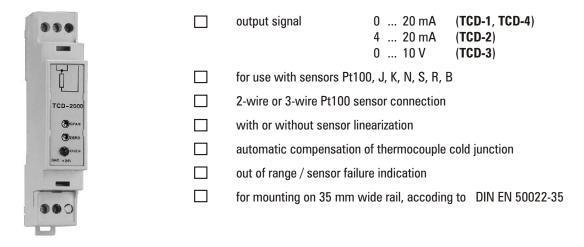
05-090 Raszyn-Rybie, ul. 19 Kwietnia 58 Poland www.czaki.pl tel. +48 22 7202302 fax +48 22 7202305 czaki@czaki.pl e-mail



RAIL-MOUNT TRANSMITTER

TCD series



The TCD type transmitter converts the Pt100 sensor resistance or voltage of thermocouples to a current signal in the range 0...20mA (TCD-1..., TCD-4...), 4...20mA (TCD-2...) or to a voltage signal in the range 0...10V (TCD-3...). TCD-2... transmitter is powered from current loop. 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

according to the table (1), (2) Sensor type, measuring range Output signal $0 \dots 20 \text{ mA}$ ref. to +24V(TCD-1) 4 ... 20 mA 2-wire arrangement (TCD-2) 0 ... 10 V ref. to GND (TCD-3) 0 ... 20 mA ref. to GND (TCD-4) Bias current of Pt100 sensors 0,5 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 / °C Power supply 12 ... 36 V DC / 25 mA $0^{\circ}C...+60^{\circ}C$ Ambient temperature T_A Dimensions (height x width x depth) 42 x 29 mm

ca. 50 g

Code	Range [°C]	Pt100	J	К	N	S, R, B
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	+	+	+	+	
65	0 1000			+	+	
70	0 1200			+	+	
75	300 1400					+
80	300 1600					+

ORDERING CODE

Weight

	(1)	(2)	(3)	(4)
TCD —				_

(1) 0 ... 20 mA, referenced to +24V Output signal 1 2 4 ... 20 mA, 2-wire system 0 ... 10 V, referenced to GND 3 4 0 ... 20 mA, referenced to GND (2) Sensor linearisation 0 1 yes (code according to the table) (3)Measuring range 10 ... 80

(4) Sensor type Pt100, J, K, N, S, R, B

Example for order:

TCD-2130-Pt100 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.

⁽¹⁾ Other sensor types on demand

⁽²⁾ Other measuring ranges on demand