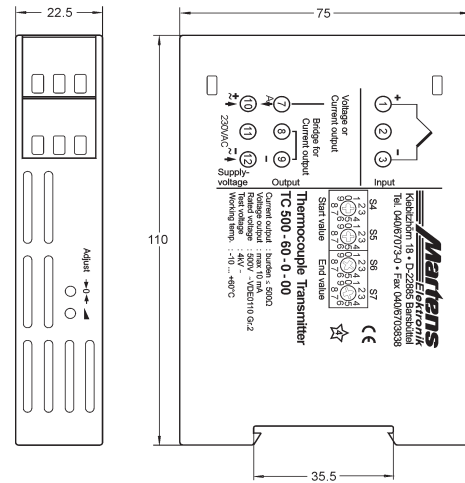


Thermocouple Transmitter TC500



Dimensions



Characteristics

Thermocouple Transmitter TC500 converts thermovoltages into standard industry signals 0/4..20 mA or 0/2..10 V DC. The measuring range is programmable via rotary switches at the side.

Technical data

Power supply

Supply voltage : 230 V AC $\pm 10\%$ or 24 V DC $\pm 15\%$
 Frequency AC : 47..63 Hz
 Power consumption : < 3.5 VA
 Operating temperature : -10..+60 °C
 CE-conformity : EN 61326-1:2013
 EN 60664-1:2007

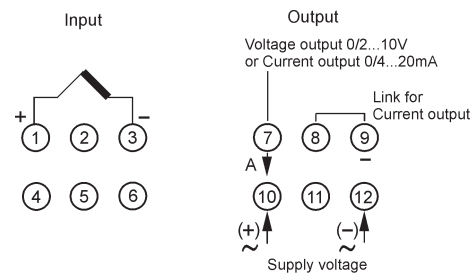
Input

Thermocouple
 Type J : Fe-CuNi, in range -100..+800 °C
 Type K : NiCr-Ni, in range -150..+1200 °C
 Type S : Pt10Rh-Pt, in range 0..+1600 °C

Output

Current : 0..20 mA, 4..20 mA switch selectable, burden $\leq 500 \Omega$
 Voltage : 0..10 V, 2..10 V switch selectable, load max. 10 mA, short-circuit-proof
 Start value : adjustable approx. $\pm 5\%$
 End value : adjustable approx. $\pm 5\%$
 Broken line : outputs takes the end value + 1 %, overflow indication
 Short-circuit : no indication (output takes terminal temperature)
 Accuracy : $\leq 0.15\%$, 1 °C
 Temperature coefficient : $\leq 0.01\%/K$
Case : Polycarbonate, UL94 V-0
 TS35 acc. to DIN EN 60715:2001-09
 Weight : approx. 200 g
 Connection : screw terminals with pressure plate max. 2.5 mm²
 Protection class : case IP30
 terminals IP20 acc. to BGV A3

Connection diagram



Ordering code

TC500 - - -

1. Input	
60	Thermocouple J, K, S programmable, output 0/4..20 mA or 0/2..10 V DC
2. Supply voltage	
0	230 V AC $\pm 10\%$
5	24V DC $\pm 15\%$
3. Options	
00	without option