

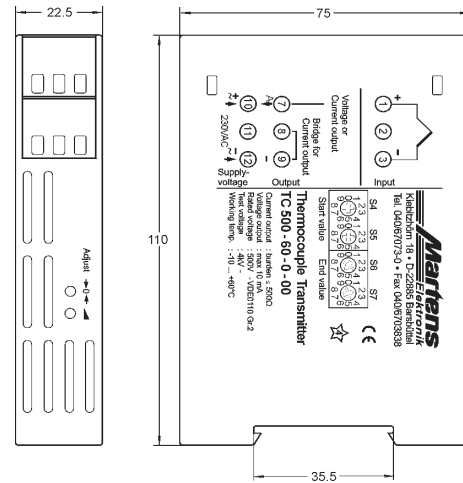
Product Information

Temperature

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

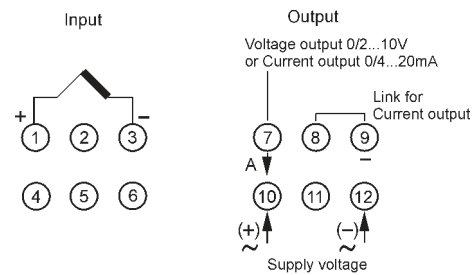
Input

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 mm ²
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