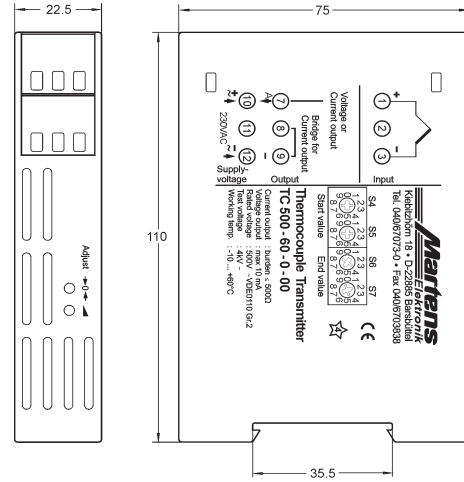


**Product Information**

# 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

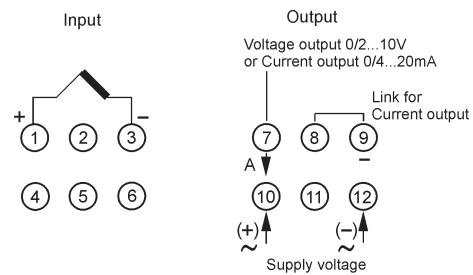
**Input**

- 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<sup>2</sup>
- Protection class : case IP30  
terminals IP20 acc. to BGV A3

**Connection diagram**



**Ordering code**

TC500 -  -  -

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