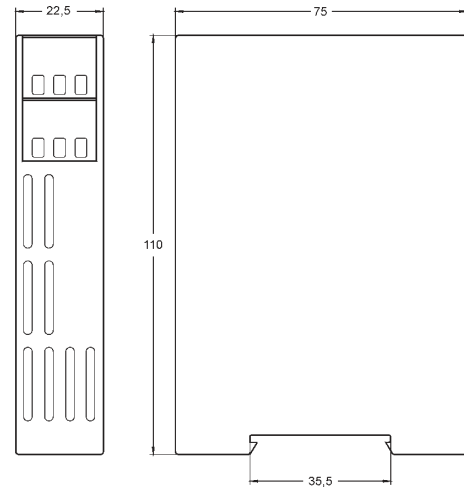


Product Information

# Temperature Transmitter MU500L



## Dimensions



## Characteristics

Temperature transmitter MU500L accept field signals of Pt100 or Pt1000 RTD sensors to the input which is filtered, isolated and converted into industry standard signals for process control systems. Special circuit design makes it possible, to produce any useful measurement ranges.

## Technical data

### Power supply

Supply voltage : 230 V AC  $\pm 10\%$ ; 24 V DC  $\pm 20\%$   
 Frequency AC : 47..63 Hz  
 Power consumption : <1.5 VA  
 Operating temperature : -10..+60 °C  
 CE- conformity : EN 61326-1:2013, EN 60664-1:2007  
 Explosion protection : Approval: TÜV 03 ATEX 2283  
 Marking : II (1) G [Ex ia] IIC bzw. II (1) D [Ex iaD]

### Measuring input \*

Start value Pt100 : in the range -100 °C.. +100 °C  
 Span Pt100 : in the range 50..600 °C  
 Start value Pt1000 : in the range -50 °C..+50 °C  
 Span Pt1000 : in the range 10..200 °C  
 Sensor current : ca. 0.6 mA (no self heating)  
 Line resistance : max. 10  $\Omega$ , automatic compensation at 3-wire connection

### Start value adjustment

4mA/2V adjustment : approx.  $\pm 10$  °C  
 Span : approx.  $\pm 1$  mA or  $\pm 0.5$  V  
 Broken line : output shows max. value  
 short circuit : output shows min. value

### Outputs

Current : 0/4..20 mA, max. 500  $\Omega$   
 Voltage : 0/2..10 V, max. 10 mA, simultaneously to the current output max. 1 mA

### Accuracy

:  $\leq 0.2\%$

### Temperature error

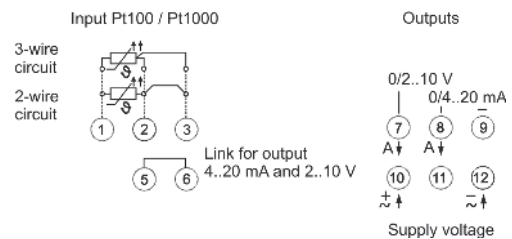
:  $\leq 0.01\%/K$

### Case

: Polycarbonate, UL94V-0  
 T35 acc. to DIN EN 60715  
 Weight : approx. 140g  
 Connection : screw terminals with pressure plate, max. 2.5 mm<sup>2</sup>  
 Protection class : case IP30, terminals IP20, BGVA3

\*Minimal and maximal range for start value and span of the measuring range.

## Connection diagram



## Ordering code

1. 2. 3.  
 MU500L -  -  -

<b>1. Device type</b>	51 Pt100
	53 Pt1000
<b>2. Supply voltage</b>	0 230 V AC $\pm 10\%$
	5 24 V DC $\pm 15\%$
<b>3. Measuring range</b>	Please state in clear text e. g.: -50..+100 °C