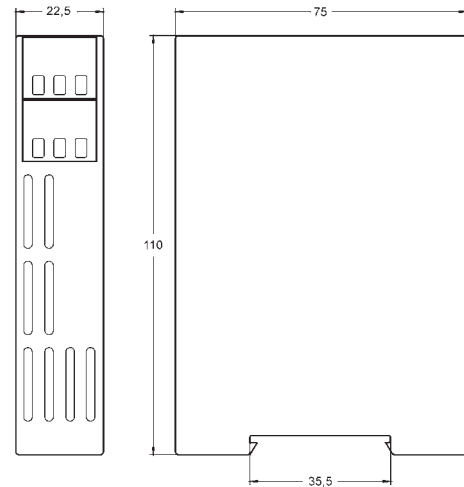


Temperature Transmitter MU500L



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.

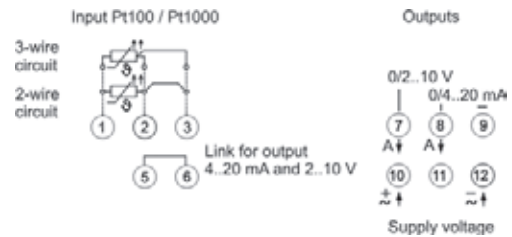
Technical data

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 Ω , automatic compensation at 3-wire connection
Start value adjustment : approx. ± 10 °C
4mA/2V adjustment : approx. ± 1 mA or ± 0.5 V
Span : approx. $\pm 10\%$
Broken line : output shows max. value
short circuit : output shows min. value
Outputs
Current : 0/4..20 mA, max. 500 Ω
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 mm²
Protection class : case IP30, terminals IP20, BGVA3

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

Connection diagram



Ordering code

MU500L - 1. - 2. - 3.

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