

Product Information

Transmitter

AC Voltage Transmitter VT500



- 6 measuring ranges selectable 0..600 V AC
- Average function selectable
- Frequency range 40..2000 Hz

Characteristics

Voltage transmitter VT500 converts true r.m.s. voltage measuring values of all types of waveforms into industry standard signals for process control systems. For example, the load voltage of an frequency converter can be detected and converted.

Technical data

Power supply

Supply voltage : 85..265 V AC or 10..30 V AC/DC
Frequency : 40..400 Hz
Power consumption : <3 VA
Operating temperature : -10..+60 °C
CE-conformity : EN 61326-1:2013; EN 60664-1:2007

Input

Voltage AC : 0..100 / 200 / 300 / 400 / 500 / 600 V AC, overload max. 1200 V max. 5 s
 R_i : 720 k Ω
Frequency : 40..2000 Hz fundamental wave, 162/3 Hz on request

Start value : adjustable $\pm 5\%$
End value : adjustable $\pm 35\%$

Output

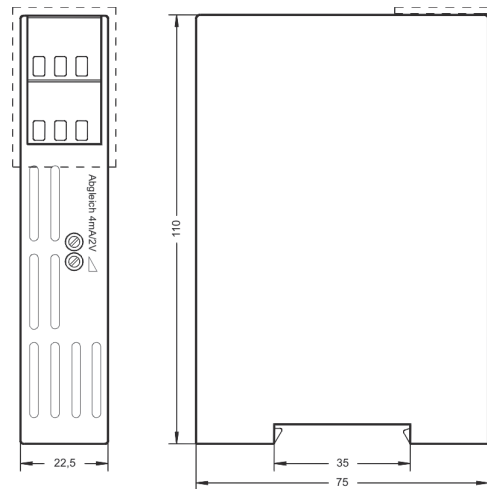
Current : 0/4...20 mA, selectable, burden ≤ 1 k Ω
Voltage : 0/2...10 V DC, selectable, load max. 15 mA, short-circuit-proof (parallel with the voltage output max. 5 mA)

Rise time (T_{90}) : ≤ 150 ms
Accuracy : $\leq 0.5\%$; single adjustment $\leq 0.2\%$

Case : Polycarbonate, UL94V-0
TS 35 acc. to DIN EN 60715:2001-09

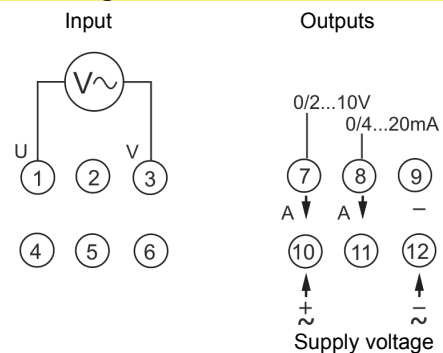
Weight : approx. 200 g
Connection : screw terminals, max. 2.5 mm²
Protection class : case IP30, terminals IP20 acc. to BGV A3

Dimensions



DIN rail mounting TS35

Connection diagram



Ordering code

VT500 - 1. - 2.

1. Measuring ranges

30 0..100 / 200 / 300 / 400 / 500 / 600 V AC
custom range on request

2. Supply voltage

0 85..265 V AC
5 10..30 V DC

Accessories

KA-VT terminal cover for measuring voltages > 400 V AC