

Current and Voltage Transmitter



HIGHLIGHTS:

- Measuring input for DC- and sinusoidal AC-signals
- Arithmetic average value measurement RMS calibrated
- Frequency range 40 ... 200 Hz

CVT 500

Current and Voltage Transmitter

General:

Transmitter CVT 500 convert current or voltage signals to proportional industry standard signals. Currents up to 5 AAC / DC and voltages up to 400 V AC / DC can go directly to the transmitters. For larger AC currents is a current transformer or for larger AC voltages ahead one voltage transformer.

Specifications:

Power supply

Supply voltage:	230 V AC ±10 % (47 ... 63 Hz) or 24 V DC ±15 %
Power consumption:	<3 VA
Working temperature:	-10 ... +50 °C
CE-conformity:	EN 55022, EN 60555, IEC 61000-4-3/4/5/11/13

Inputs

Accuracy:	≤ 0.5 % (≤ 0.2 % single adjustment)
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Standard measuring ranges

Current:	0 ... 1 A and 0 ... 5 A sinusoidal or DC
R_i:	20 mΩ (5 A-) or 100 mΩ (1 A-input)
Overload:	2-times, 4-times max. 5 s

Voltage

Measuring ranges:	0 ... 125 V and 0 ... 250 V AC or DC
R_i:	600 kΩ (125 V-) or 1.2 MΩ (250 V-input)
Overload:	max. 500 V AC/DC

Custom measuring ranges

Voltage:	end value in range 0.1 ... 400 V AC/DC, R _i 4.8 kΩ/V
Overload:	5-times UN, max. 500 V AC/DC
Current:	end value in range 0.001 ... 5 AAC/DC, R _i 100 mΩ
Overload:	2-times, 4-times max. 5 s

Output

Output changing

Voltage/current:	link between terminal 8 and 9
Current output:	0/4 ... 20 mA selectable, burden ≤ 500 Ω
Rise time (T₉₀):	<650 ms
Burden error:	<0.1 % (R _L = <200 Ω), <0.2 % (R _L = <500 Ω)
Voltage:	0/2 ... 10 V selectable, load max. 10 mA

Housing

Connection:	screw terminals, max. 2.5 mm ²
Protection class:	Housing IP30, terminals IP20 acc. to BGV A3

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Greisinger	
1. Current ranges	
0	not installed (custom measuring range voltage)
1 / 5	standard device 0 ... 1 A and 0 ... 5 AAC / DC
X	please specify custom measuring range
2. Voltage ranges	
0	not installed (custom measuring range current)
125 / 250	standard device 0 ... 125 V and 0 ... 250 V AC/DC
X	please specify custom measuring range
3. Supply voltage	
0	230 V AC ± 10 %
5	24 V DC ± 15 %

AC Voltage Transmitter



HIGHLIGHTS:

- 6 measuring ranges
- Average function selectable
- Frequency range 40 ... 2000 Hz fundamental wave

VT 500

AC Voltage Transmitter

General:

Wechselspannungs-Messumformer VT 500 wandeln den Echt-Effektivwert einer Wechselspannung beliebiger Kurvenform in proportionale Einheitssignale um. Damit kann z. B. die Lastspannung eines Frequenzumrichters erfasst und umgewandelt werden. Die universelle Auslegung der Ein- und Ausgänge und die weiten Hilfsspannungsbereiche begrenzen die Typenvielfalt auf 2 Ausführungen. Die geringe Gehäusebreite ermöglicht eine platzsparende Montage.

Specifications:

Power supply

Supply voltage:	85 ... 265 V AC or 10 ... 30 V AC/DC
Frequency AC:	40 ... 400 Hz
Power consumption:	<3 VA
Working temperature:	-10 ... +60 °C
CE-conformity:	EN 55022, EN 60555, IEC 61000-4-3/4/5/11/13

Input

Voltage AC:	0 ... 100 / 200 / 300 / 400 / 500 / 600 V AC, overload max. 1200 V max. 5 s
R_i:	720 kΩ
Frequency:	40 ... 2000 Hz fundamental wave, 16 _{2/3} Hz on request
Start value:	adjustable ±5 %
End value:	adjustable ±35 %

Output

Current:	0/4 ... 20 mA, selectable, burden ≤1 kΩ
Voltage:	0/2 ... 10 V DC, selectable, load max. 15 mA, short-circuit-proof (parallel with the voltage output max. 5 mA)
Rise time (T₉₀):	≤150 ms
Accuracy:	≤0.5 %; single adjustment ≤0.2 %

Housing:	Polycarbonat, UL 94 V-0, TS35 acc. to DIN EN 60715:2001-09
Weight:	approx. 200 g
Connection:	screw terminals, max. 2.5 mm ²
Protection class:	Housing IP30, terminals IP20 acc. to BGV A3

Accessories and spare parts:

KA-VT	Terminal cover for measuring voltages >400 V AC
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VT500- **1** - **2**

Greisinger	
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