

MPU117/1 Voltage Measuring Converter (DC/DC)

The voltage converter, MPU 117/1, belongs to the group of measuring converters using the two-way rectification method. The converter converts the input AC voltage to the output DC current or DC voltage signal. The output signal is galvanically isolated from the supply voltage and the input signal.



	Power Supply	Input	Output
1	24 VDC	0 – 100 VAC	0 – 1 – 10 mA
2	20 – 60 VDC	0 – 250 VAC	0 – 2 – 20 mA
3	48 VDC	0 – 500 VAC	0 – 1 – 10 V
4	110 VDC	/	/
5	100 – 240 VDC/AC	/	/
6	230 VAC	/	/
7	/	/	/
8	/	/	/
9	/	/	/
0	per request	per request	per request

Technical Data

Measuring method	Electronic rectifier
Rated input value	100V, 100/√3V, 220V, 380V, 500V
Rated frequency	50Hz, 60Hz
Own consumption	<2VA
Permanent overload	1.2Un
Short-term overload	2Un
Output Load (Voltage)	>10kΩ
Output load (current)	700 – 1500Ω
Setup time	200ms
Output ripple	0.2%
Deviation at nominal conditions	0.2%
Linearity	0.1%
Influence of temperature	0.1% / 10°C
Working temperature	-10°C...+55°C
Storage temperature	-40°C...+70°C
Supply voltage variation	±20%
Frequency variation	±20%
Test voltage (all circuits coupled together)	4kV, 50Hz, 1min

MPU 117/1 type is based on the desired combinations from table:
PowerSupply.Input.Output, for example:

MPU 117/1 1.3.2 has a 24VDC power supply, an input voltage in the range from 0 to 500VAC, and the output current is in the range 0-20mA, where the breaking point of the output signal is 2mA;

MPU 117/1 3.2.1 has a 48VDC power supply, input 0-250VAC, and the output current is in the range 0-10mA, where the breaking point of the output signal is 1mA;

MPU 117/1 0.0.0 (or just MPU 117/1) is based on user needs.

www.pupin.rs