

## USER MANUAL



## CAUTION

- This note must be read in full. Any operations on live conductors can be dangerous.
- The operator is expected to be fully aware of all necessary electrical safety regulations and procedures. Safe operation is this responsibility.
- It is up to the user to ensure that the equipment is at all times in its original safe conditions.
- Operate on ranges selector on the bottom part of clamp, free of instrument connection cable, (see Figure) to modify current ranges.

## SPECIFICATIONS

Ranges selector 10-100-1000A

Primary rates current:	10A, 100A, 1000A FS
Measuring range:	0,1 ÷ 10A / 0,5A ÷ 100A / 1A ÷ 1000A
Output signal:	1V
Protection:	By diodes
Ratio:	100mV/A – 10mV/A and 1mV/A
Accuracy:	See table
Max error:	2% (of reading)
Internal load:	10A=100Ω; 100A=10Ω; 1000A=1Ω
External min load:	100 times the internal load
Power measurement:	Take care to keep the conventional direction P1 $\Rightarrow$ P2 rear of the arrows
Frequency range:	40Hz to 10000 Hz
Pollution degree:	2 according to IEC 1010-1
Dielectric strength:	5,5 KV 50 Hz 1 min
Temperature range:	-10 ÷ +50 °C
Overvoltage category:	CAT III 600V
“Opening” cable:	54 mm
“Opening” bus bars:	35x35mm or 50x12mm
Dimensions (mm):	105 x 225 x 31mm
Weight:	720 g
Output connection:	Shielded cable FM2R 2m long , ended with a FRB D01 connector



## ACCURACIES

<b>10A FS</b>	<b>0.1 ÷ 0.5A</b>	<b>0.5 ÷ 2.0A</b>	<b>2.0 ÷ 10A</b>
Accuracy % of output signal	$\pm(2\% \text{rdg} + 4\text{mV})$	$\pm(2\% \text{rdg} + 4\text{mV})$	$\pm(0.5\% \text{rdg} + 5\text{mV})$
Phase error [°]	not specified	10	5

<b>100A FS</b>	<b>0.1 ÷ 1A</b>	<b>1 ÷ 20A</b>	<b>20 ÷ 100A</b>
Accuracy % of output signal	$\pm(2\% \text{rdg} + 3\text{mV})$	$\pm(1\% \text{rdg} + 2\text{mV})$	$\pm(1\% \text{rdg} + 2\text{mV})$
Phase error [°]	2	1	1

<b>1000A FS</b>	<b>1 ÷ 10A</b>	<b>10 ÷ 200A</b>	<b>200 ÷ 1000A</b>
Accuracy % of output signal	$\pm(1\% \text{rdg} + 1\text{mV})$	$\pm(1\% \text{rdg} + 1\text{mV})$	$\pm(1\% \text{rdg} + 1\text{mV})$
Phase error [°]	1	1	0.5

<b>Measurements performed with digital instrument, model 1.200.000 digits class 0.2 Cofrac traceable</b>
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**CAUTION:** this symbol indicates that equipment and its accessories shall be subject to a separate collection and correct disposal.