

# HT96U

Clamp 1-100-1000A~

Instruction manual

CE



## INSTRUCTION MANUAL

### SAFETY WARNING



- 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

Primary rates current:	1A, 100A, 1000A FS	
Measuring range:	0.001÷1.2A, 0.1÷120A, 1A ÷ 1200A	
Output signal:	1V	
Protection:	By diodes	<b><u>Ranges selector 1-100-1000A</u></b>
Ratio:	1mV/mA – 10mV/A - 1mV/A	
Accuracy:	1% and 0,5%	
Max error:	2% (of reading)	
Internal load:	1A=3kΩ; 100A=15Ω; 1000A=1.5Ω	
External min load:	100 times the internal load	
Frequency range:	40Hz ÷ 100Hz	
Pollution degree:	2 according to IEC 1010-1	
Dielectric strength:	5,5KV 50Hz 1min	
Temperature range:	-10° ÷ +50°C	
Overvoltage category:	CAT III 600V	
"Opening" cable:	Diameter 54mm	
"Opening" bus bars:	35x35mm or 50x12mm	
Dimensions (mm):	105 x 225 x 31mm	
Weight:	720g	
Power measurement:	Take care to keep the conventional direction P1 ⇒ S1 rear of the arrows	
Output connection:	Shielded cable FM2R 2m long , ended with a FRB D01 connector	



## ACCURACIES

1A FS	1 ÷ 100mA	100 ÷ 500mA	500mA ÷ 1.2A
Precision in % of the output signal	±(3%rdg+0.5mV)	±(2%rdg+1mV)	±(1%rdg+1mV)
Phase difference			<10 degrees

100A FS	100mA ÷ 1A	1 ÷ 10A	10 ÷ 120A
Precision in % of the output signal	±(1%rdg+1mV)	±(0.5%rdg+0.5mV)	±(0.5%rdg)
Phase difference		2 degrees	1 degrees

1000A FS	1 ÷ 10A	10 ÷ 100A	100 ÷ 1200A
Precision in % of the output signal	±(1%rdg+0.5mV)	±(0.5%rdg+1mV)	±0,5%rdg
Phase difference		1.5 degrees	1 degrees

**Measurements performed with digital instrument, model 1.200.000 digits class 0.2 COFRAC traceable.**



**CAUTION:** this symbol indicates that equipment and its accessories shall be subject to a separate collection and correct disposal.