



HT4004

Rel. 1.02 of 16/01/24

10/100A AC/DC rigid clamp transducer

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GENERAL SPECIFICATIONS

Measurement range:	0.1A ÷ 100A AC/DC
Max output signal:	1V AC/DC
Output ratio:	0.1A /10mV AC/DC ; 1A/10mV AC/DC
Accuracy:	see table
Minimum external load:	10kΩ
Frequency range:	40Hz ÷ 1kHz
Pollution degree:	2
Safety:	IEC/EN61010-1
Working temperature:	-10°C ÷ +50°C
Storage temperature:	-10°C ÷ +60 °C
Measurement category:	CAT III 600V
Power supply:	2x1.5V alkaline batteries type AAA LR03
Battery life:	approx 3 days in continuous measurement
Max diameter of cable:	30mm
Dimensions (L x W x H):	175 x 70 x 35mm
Weight (included batteries):	200g
Output connector:	HT custom connector

TECHNICAL SPECIFICATIONS

Range	Current range	Output range	DC Current accuracy	AC Current accuracy (40Hz ÷ 1kHz)	Overload protection
10A	0.1A ÷ 1.0A	10mV ÷ 1V	±(1.0%reading+0.03A)	±(1.5% reading +0.5A)	120Arms (max 60 sec)
	1.1A ÷ 10A		±(1.0%reading+0.01A)		
100A	1A ÷ 100A		±(1.0%reading+0.05A)	±(1.5% reading +2A)	

NOTE: the clamp introduce a phase error of about 3 degree which means an added error on AC power measurement of about 3%rdg (@ $\cos\varphi = 0.866$) and about 9%rdg (@ $\cos\varphi = 0.5$)

