



HT3010

Rel. 1.00 of 21/01/21

AC TRMS clamp meter up to 400A

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1. ELECTRICAL SPECIFICATIONS

Accuracy is calculated as [% rdg + (number of dgt * resolution)] referred to 18°C ÷ 28°C <75%RH

DC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
200.0mV	0.1mV	±(1.0%rdg + 3dgt)	10MΩ	600VDC/ACrms
2.000V	0.001V			
20.00V	0.01V			
200.0V	0.1V			
600V	1V			

AC TRMS VOLTAGE

Range	Resolution	Accuracy (*)		Overload protection
		(40Hz ÷ 60Hz)	(61Hz ÷ 400Hz)	
200.0mV	0.1mV	±(1.0%rdg + 3dgt)	±(3.0%rdg + 5dgt)	600VDC/ACrms
2.000V	0.001V			
20.00V	0.01V			
200.0V	0.1V			
600V	1V			

(*) Accuracy specified for sinusoidal waveform. For not sinusoidal waveform accuracy is: ±(3.0%rdg+5dgt) (50Hz+60Hz)

Integrated sensor for AC voltage detection: LED switch on for phase-earth voltage > 50V, 50/60Hz

Input impedance: 10MΩ ; Crest factor: ≤2;

AC TRMS CURRENT

Range	Resolution	Accuracy (*)		Overload protection
		(40Hz ÷ 60Hz)	(61Hz ÷ 400Hz)	
2.000A	0.001A	±(2.0%rdg + 5dgt)	±(3.0%rdg + 5dgt)	400Arms
20.00A	0.01A			
200.0A	0.1A			
400A	1A			

(*) Accuracy specified for sinusoidal waveform. For not sinusoidal waveform accuracy is: ±(3.0%rdg+5dgt) (50Hz+60Hz)

Crest factor: ≤2

RESISTANCE AND CONTINUITY TEST

Range	Resolution	Accuracy	Buzzer	Overload protection
200.0Ω	0.1Ω	±(1.0%rdg + 5dgt)	≤ 30Ω	600VDC/ACrms
2.000kΩ	0.001kΩ			
20.00kΩ	0.01kΩ			
200.0kΩ	0.1kΩ			
2.000MΩ	0.001MΩ			
20.00MΩ	0.01MΩ	±(1.2%rdg + 3dgt)		

DIODE TEST

Function	Resolution	Open voltage	Overload protection
	0.001V	>3VDC	600VDC/ACrms

FREQUENCY WITH TEST LEADS AND JAWS

Range	Resolution	Accuracy	Sensitivity	Overload protection
19.99Hz	0.01Hz	±(1.0%rdg + 5dgt)	≥0.1Vrms ≥1Arms	600VDC/ACrms 400ADC/ACrms
199.9Hz	0.1Hz			
1999Hz	0.001kHz			
19.99kHz	0.01kHz			

Frequency range: 10Hz ÷ 19.99kHz




2. GENERAL SPECIFICATIONS

Mechanical characteristics

Size (L x W x H):	220 x 81 x 42mm
Weight (including battery):	320g
Max conductor size:	30mm
Mechanical protection:	IP40

Supply

Battery type:	3x1.5V batteries type AAA LR03
Battery life:	ca 40 hours (backlight ON), ca 240 hours (backlight OFF)
Low battery indication:	“  ” symbol is displayed
Auto Power OFF:	after 15 minutes of idleness (disabled)

Display

Characteristics:	4 LCD (max 6000 counts), sign, decimal point, backlight
Sample rate:	3 times/sec
Conversion mode:	TRMS

Climatic conditions

Reference temperature:	23°C ±5°C
Operating temperature:	0°C ÷ 40°C
Operating humidity:	<75%RH
Storage temperature:	-10°C ÷ 50°C
Storage humidity:	<75%RH

Reference guidelines

Safety:	IEC/EN61010-1, IEC61010-2-032, IEC61010-2-033
EMC:	IEC/EN61326-1
Insulation:	double insulation
Pollution level:	2
Max height of use:	2000m
Measurement category:	CAT III 600V to ground

**This instrument satisfies the requirements of Low Voltage Directive 2014/35/EU (LVD)
and of EMC Directive 2014/30/EU
This instrument satisfies the requirements of 2011/65/EU (RoHS) directive
and 2012/19/EU (WEEE) directive**