



ORDER CODE **HP004010**

HT4010

CLAMP METER AC 600A

Clamp meter HT4010 can carry out measurements of **AC current up to 600A** and **AC/DC voltage, Resistance, Continuity** and **Diode test**. The device is provided with an internal sensor capable of detecting, through a LED turning on and a buzzer sounding, the presence of AC voltage in a spot without contact. This device complies with standard **IEC/EN61010-1** in **CAT III 600V** and it is the ideal solution for measurements to be carried out both in domestic and in industrial environments.

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Functions

- AC current up to 600A
- AC/DC voltage up to 600V
- Detection of AC voltage without contact
- Resistance / Continuity test
- Diode test
- Data HOLD
- MAX
- Backlight
- Auto Power OFF



Main features

Display:	LCD, 3½ digits, 2000 dots average value
Conversion type:	1x9V battery type 6F22
Power supply:	after 15 minutes' idling
Auto Power OFF:	30mm
Clamp jaw internal diameter:	EC/EN 61010-1
Safety:	CAT III 600V
Measurement category:	double insulation
Insulation:	2
Pollution level:	2000m
Max height:	197x70x40mm
Size (LxWxH):	180g
Weight (batteries included):	



Technical Specifications

DC voltage

- Measuring range: 1mV ÷ 600V
- Resolution: 0.1mV ÷ 1V
- Basic accuracy: ±(0.8%reading + 2 digits)
- Protection against overcharge: 600Vrms

AC voltage

- Measuring range: 1mV ÷ 600V
- Resolution: 0.1mV ÷ 1V
- Frequency band: 50Hz ÷ 60Hz
- Basic accuracy: ±(1.5%reading+ 3.5mV)
- Protection against overcharge: 600Vrms

AC current

- Measuring range: 0.01A ÷ 600A
- Resolution: 1mA ÷ 0.1A
- Frequency band: 50Hz ÷ 60Hz
- Basic accuracy: ±(2.5%reading + 4digits)
- Protection against overcharge: 600Arms

Resistance and continuity test with buzzer

- Measuring range: 1Ω ÷ 20MΩ
- Resolution: 0.1Ω ÷ 0.01MΩ
- Basic accuracy: ±(1.0%reading + 4digits)
- Continuity buzzer: <150Ω



Included accessories

4324-2

Pair of test leads with 2/4mm tip
Soft carrying bag, battery and user manual



1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as \pm (%reading + number of dgt) at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$, $<80\%RH$

DC VOLTAGE

Range	Resolution	Accuracy	Overload protection
200.0mV	0.1mV	$\pm(0.8\%rdg+2dgt)$	600VDC/AC RMS
2.000V	0.001V	$\pm(1.5\%rdg+2dgt)$	
20.00V	0.01V		
200.0V	0.1V		
600V	1V	$\pm(2.0\%rdg+2dgt)$	

Input impedance: $10M\Omega$

AC VOLTAGE

Range	Resolution	Accuracy (50 ~ 60Hz)	Overload protection
200.0mV	0.1mV	$\pm(1.5\%rdg+3.5mV)$	600VDC/AC RMS
2.000V	0.001V	$\pm(1.8\%rdg+8dgt)$	
20.00V	0.01V		
200.0V	0.1V		
600V	1V	$\pm(2.5\%rdg+8dgt)$	

Input impedance: $10M\Omega$

AC CURRENT

Range	Resolution	Accuracy (50 ~ 60Hz)	Overload protection
2.000A	0.001A	$\pm(2.5\%rdg+10dgt)$	600ARMS
20.00A	0.01A	$\pm(2.5\%rdg+4dgt)$	
200.0A	0.1A		
600.0A	1A	$\pm(4.0\%rdg+8dgt)$	

Bandwidth: $50 \div 60Hz$

RESISTANCE AND CONTINUITY TEST

Range	Resolution	Accuracy	Buzzer	Overload protection
200.0 Ω	0.1 Ω	$\pm(1.0\%rdg+4dgt)$	$\leq 150\Omega$	250VDC/AC RMS
2.000k Ω	0.001k Ω	$\pm(1.5\%rdg+2dgt)$		
20.00k Ω	0.01k Ω			
200.0k Ω	0.1k Ω			
2.000M Ω	0.001M Ω	$\pm(2.5\%rdg+3dgt)$		
20.00M Ω	0.01M Ω	$\pm(3.5\%rdg+5dgt)$		

DIODE TEST

Range	Test current	Open voltage
	0.3mA typical	1.5VDC



2. GENERAL SPECIFICATIONS

Display:

- LCD, 3 ½ dgt, 2000 points plus sign and decimal point
- Automatic polarity indication
- Backlight

Measuring rate:

- 2 times/second
- Conversion: mean value

Low battery indication:

- "BAT" appears when the battery voltage is low

Operating temperature:

- 5°C to 40°C, <80 %RH

Storage temperature:

- -20°C to 60°C, <80%RH

General information:

- Max altitude: 2000m
- Pollution degree: 2
- Insulation: double insulation
- Max. diameter conductor: 30mm

Power supply:

- 1x9V battery NEDA 1604 IEC 6F22
- AutoPowerOFF after 15 minutes of idleness

Size:

- 197(L)x70(W)x40(H) mm

Weight:

- 180g (included battery)

Applied standards:

- LVD: IEC/EN 61010-1 CAT III 600V to ground
- EMC: EN60326

This product conforms to the prescriptions of the European directive on low voltage 2006/95/EEC and to EMC directive 2004/108/EEC