

# HT4010

## AC 600A AMPEROMETRIC CLAMP

Clamp-on meter HT4010 can measure AC current up to 600 A, AC/DC voltage, resistance, continuity test and diode test. The backlighted LCD permits easy reading even under critical conditions. The instrument complies with EN 61010-1 under CAT III 600V and is suitable for measurements both in civil and industrial sites.

### FUNCTIONS

- AC current up to 600A
- AC/DC voltage up to 600V
- Non-contact AC voltage detection
- Resistance and continuity test
- Diode test
- Data HOLD
- MAX
- Backlight
- Auto Power OFF

### GENERAL SPECIFICATIONS

Display:	LCD, 3 ½ digits, 2000 counts
Conversion type:	mean value
Power supply:	1x9V battery type IEC 6F22
AutoPowerOFF:	after 15 minutes of idleness
Clamp inner diameter:	30mm
Safety:	IEC/EN 61010-1
Measurement category:	CAT III 600V
Insulation:	double insulation
Pollution degree:	2
Max altitude:	2000m
Dimensions (LxWxH):	197x70x40mm
Weight (batteries included):	180g

### TECHNICAL SPECIFICATIONS

DC Voltage	
Measurement range:	0.1mV ÷ 600V
Resolution:	0.1mV÷1V
Basic accuracy:	±(1.5%rdg + 2dgt)
Protection:	600VDC/ACrms
AC Voltage	
Measurement range:	0.1mV ÷ 600V
Resolution:	0.1mV÷1V
Frequency range:	50 ÷ 60Hz
Basic accuracy:	±(1.8%rdg + 8dgt)
Protection:	600VDC/ACrms
AC Current	
Measurement range:	0.001A ÷ 600A
Resolution:	0.001A ÷ 0.1A
Frequency range:	50 ÷ 60Hz
Basic accuracy:	±(2.5%rdg + 4dgt)
Protection:	600Arms
Resistance and continuity test with buzzer	
Measurement range:	0.1Ω ÷ 20MΩ
Resolution:	0.1Ω ÷ 0.01MΩ
Basic accuracy:	±(1.0%rdg + 4dgt)
Buzzer:	<150Ω

### ACCESSORIES

Standard	Code
Pair of test leads	KIT4000A
Carrying bag	
Battery	
User manual	



**HT4010**  
HP004010



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Rel. 1.01 - 20/10/09

600A AC clamp-on meter

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## 1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as  $\pm$  (%reading + number of dgt) at 23 °C  $\pm$  5 °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 $\Omega$	0.1 $\Omega$	$\pm(1.0\%rdg+4dgt)$	$\leq 150\Omega$	250VDC/AC RMS
2.000k $\Omega$	0.001k $\Omega$	$\pm(1.5\%rdg+2dgt)$		
20.00k $\Omega$	0.01k $\Omega$			
200.0k $\Omega$	0.1k $\Omega$			
2.000M $\Omega$	0.001M $\Omega$	$\pm(2.5\%rdg+3dgt)$		
20.00M $\Omega$	0.01M $\Omega$	$\pm(3.5\%rdg+5dgt)$		

### 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**