

HT4011

AC 400A AMPEROMETRIC CLAMP

Clamp-on meter HT4011 can measure AC current up to 400A, AC/DC voltage, resistance, continuity test, capacitance, temperature with type K probe, frequency, duty cycle and diode test. The instrument complies with IEC/EN61010-1 under CAT III 600V and is suitable for measurements both in civil and industrial site.

FUNCTIONS

- AC current up to 400A
- AC/DC voltage up to 600V
- Non-contact AC voltage detection
- Resistance and continuity test
- Diode test
- Frequency with test leads
- Capacitance
- Temperature with type K probe
- Duty cycle
- Data HOLD
- Relative measurement
- Auto Power OFF

GENERAL SPECIFICATIONS

Display:	LCD, 4 digits, 4000 counts
Conversion type:	mean value
Power supply:	2x1.5V batteries type AAA
Auto Power OFF:	after 30 min of idleness
Clamp inner diameter:	30mm
Safety:	IEC/EN61010-1
Measurement category::	CAT III 600V
Insulation	double insulation
Pollution degree	2
Max altitude	2000m
Dimensions (LxWxH)	200x66x37mm
Weight (batteries included)	205g



NEW

HT4011
HP004011

TECHNICAL SPECIFICATIONS

DC Voltage

Measurement range:	0.1mV ÷ 600V
Resolution:	0.1mV ÷ 0.1V
Basic accuracy:	±(0.8%rdg+2dgt)
Protection:	600VDC/ACrms

AC Voltage

Measurement range:	1mV ÷ 600V
Resolution:	1mV ÷ 1V
Frequency range:	50 ÷ 400Hz
Basic accuracy:	±(1.8%rdg+ 8dgt)
Protection:	600VDC/ACrms

AC Current

Measurement range:	0.01A ÷ 400A
Resolution:	0.01A ÷ 0.1A
Basic accuracy:	±(2.5%rdg+8dgt)
Protection:	400Arms

Resistance and continuity test with buzzer

Measurement range:	0.1Ω ÷ 40MΩ
Resolution:	0.1Ω ÷ 0.01MΩ
Basic accuracy:	±(1.0%rdg+4dgt)
Buzzer:	<30Ω

Capacitance

Measurement range:	0.01nF ÷ 100μF
Resolution:	0.01nF ÷ 0.1μF
Basic accuracy:	±(3.0%rdg+5dgt)
Protection:	600VDC/ACrms

Frequency with test leads

Measurement range:	10Hz ÷ 10kHz
Resolution:	0.01Hz ÷ 0.01kHz
Basic accuracy:	±(1.0%rdg+5dgt)
Protection:	600VDC/ACrms

Temperature with type K probe

Measurement range:	-20°C ÷ 760°C
Resolution:	0.1°C ÷ 1°C
Basic accuracy:	±(3.0%rdg+5°C)
Protection:	250VDC/ACrms

ACCESSORIES

Standard

- Pair of test leads
- Adapter + K-type bead probe
- Batteries
- Transport bag
- User manual

Optional

- K-type thermocouples



HT4011

Rel. 1.00 of 12/09/13

AC clamp meter up to 400A

Pag 1 of 3

1. ELECTRICAL SPECIFICATIONS

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

DC Voltage (Autorange)

Range	Resolution	Accuracy	Input impedance	Overload protection
400.0mV	0.1mV	$\pm(0.8\%rdg + 2dgt)$	10M Ω	600VDC/ACrms
4.000V	0.001V	$\pm(1.5\%rdg + 2dgt)$		
40.00V	0.01V			
400.0V	0.1V			
600.0V		$\pm(2.0\%rdg + 2dgt)$		

AC Voltage (Autorange)

Range	Resolution	Accuracy	Input impedance	Bandwidth	Overload protection
4.000V	0.001V	$\pm(1.8\%rdg + 8dgt)$	10M Ω	50 ÷ 400Hz	600VDC/ACrms
40.00V	0.01V				
400.0V	0.1V				
600V	1V	$\pm(2.5\%rdg + 8dgt)$			

Integrated sensor for AC voltage detection: LED turn on for phase-earth voltage > 100V, 50/60Hz

Resistance and Continuity test (Autorange)

Range	Resolution	Accuracy	Buzzer	Overload protection
400.0 Ω	0.1 Ω	$\pm(1.0\%rdg + 5dgt)$	$\leq 60\Omega$	600VDC/ACrms
4.000k Ω	0.001k Ω			
40.00k Ω	0.01k Ω			
400.0k Ω	0.1k Ω			
4.000M Ω	0.001M Ω	$\pm(2.0\%rdg + 10dgt)$		
40.00M Ω	0.01M Ω			

Test current of continuity test: < 0.35mA

AC Current

Range	Resolution	Accuracy	Bandwith	Overload protection
40.00A	0.01A	$\pm(2.5\%rdg + 8dgt)$	50 ÷ 60Hz	400Arms
400.0A	0.1A	$\pm(2.8\%rdg + 8dgt)$		

Capacitance (Autorange)

Range	Resolution	Accuracy	Overload protection
40.00nF	0.01nF	$\pm(4.0\%rdg + 20dgt)$	600VDC/ACrms
400.0nF	0.1nF	$\pm(3.0\%rdg + 5dgt)$	
4.000 μ F	0.001 μ F		
40.00 μ F	0.01 μ F	$\pm(4.0\%rdg + 10dgt)$	
400.0 μ F	0.1 μ F		

Diode test

Feature	Test current	Open voltage
	0.3mA typical	1.5VDC



宇宏企業股份有限公司

台北：三重區重新路五段609巷16號6樓之1
 TEL:02-22782269 FAX:02-22782059
<http://www.fluke-tektronix.tw>

新竹：新竹縣竹北市台元26號4樓之10
 TEL:03-552-6779 FAX:03-552-6739
<http://www.radiotek.com.tw>



HT4011

Rel. 1.00 of 12/09/13

AC clamp meter up to 400A

Pag 2 of 3

Frequency with test leads (Aurange)

Range	Resolution	Accuracy	Sensitivity	Overload protection
10.00Hz ÷ 49.99Hz	0.01Hz	±(1.5%rdg + 2dgt)	>15Vrms	600VDC/ACrms
50.0Hz ÷ 499.9Hz	0.1Hz			
0.500kHz ÷ 4.999kHz	0.001kHz			
5.00kHz ÷ 10.0kHz	0.01kHz			

Duty Cycle (Aurange)

Range	Resolution	Accuracy
0.5% ÷ 99.0%	0.1%	±(1.2%rdg + 2dgt)

Temperature with type K probe (Aurange)

Range	Resolution	Accuracy (*)	Overload protection
-20.0 ÷ 399.0°C	0.1°C	±(3.0%rdg + 5°C)	600VDC/ACrms
400 ÷ 760°C	1°C		
-4.0 ÷ 750.0°F	0.1°F	±(3.0%rdg + 9°F)	
752 ÷ 1400°F	1°F		

(*) Accuracy of type K probe not considered



宇宏企業股份有限公司

台北: 三重區重新路五段609巷16號6樓之1
 TEL:02-22782269 FAX:02-22782059
<http://www.fluke-tektronix.tw>

新竹: 新竹縣竹北市台元26號4樓之10
 TEL:03-552-6779 FAX:03-552-6739
<http://www.radiotek.com.tw>



HT4011

Rel. 1.00 of 12/09/13

AC clamp meter up to 400A

Pag 3 of 3

2. GENERAL SPECIFICATIONS

Mechanical characteristics

Size (L x W x H):	200 x 66 x 37mm
Weight (including battery):	205g
Max conductor size:	30mm

Supply

Battery type:	2x1.5V batteries type AAA LR03
Low battery indication:	“+ III” is displayed
Auto Power OFF:	after 30 minutes of idleness (not disabled)

Display

Characteristics:	4 LCD (max 4000 counts), decimal point, unit symbol indication
Sample rate:	2 times/sec
Conversion mode:	mean value

Climatic conditions

Reference temperature:	18°C ÷ 28°C
Operating temperature:	5 ÷ 40 °C
Operating humidity:	<80%RH
Storage temperature:	-20 ÷ 60 °C
Storage humidity:	<80%RH

Reference standards

Comply with:	IEC/EN61010-1
Insulation:	double insulation
Pollution level:	2
For inside use, max height:	2000m
Installation category:	CAT III 600V to ground

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



宇宏企業股份有限公司

台北: 三重區重新路五段609巷16號6樓之1
TEL:02-22782269 FAX:02-22782059
<http://www.fluke-tektronix.tw>

新竹: 新竹縣竹北市台元26號4樓之10
TEL:03-552-6779 FAX:03-552-6739
<http://www.radiotek.com.tw>