



HT4013

Rel. 1.00 of 28/01/15

AC/DC clamp meter up to 400A

Pag 1 of 3

1. ELECTRICAL SPECIFICATIONS

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

AC Voltage (Autorange)

Range	Resolution	Accuracy	Input impedance	Bandwidth	Overload protection
4.000V	0.001V	$\pm(1.5\% \text{rdg} + 5\text{dgt})$	10MΩ	50 ÷ 400Hz	600VDC/ACrms
40.00V	0.01V				
400.0V	0.1V				
600V	1V				

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

DC Voltage (Autorange)

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

AC Current

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

DC Current

Range	Resolution	Accuracy	Overload protection
40.00A	0.01A	$\pm(2.5\% \text{rdg} + 5\text{dgt})$	400Arms
400.0A	0.1A	$\pm(2.8\% \text{rdg} + 5\text{dgt})$	

Resistance and Continuity test (Autorange)

Range	Resolution	Accuracy	Buzzer	Overload protection		
400.0Ω	0.1Ω	$\pm(1.0\% \text{rdg} + 4\text{dgt})$	≤ 30Ω	600VDC/ACrms		
4.000kΩ	0.001kΩ	$\pm(1.5\% \text{rdg} + 2\text{dgt})$				
40.00kΩ	0.01kΩ					
400.0kΩ	0.1kΩ	$\pm(2.5\% \text{rdg} + 3\text{dgt})$				
4.000MΩ	0.001MΩ					
40.00MΩ	0.01MΩ	$\pm(3.5\% \text{rdg} + 5\text{dgt})$				

Test current of continuity test: < 0.5mA

Capacitance (Autorange)

Range	Resolution	Accuracy	Overload protection	
40.00nF	0.01nF	$\pm(4.0\% \text{rdg} + 20\text{dgt})$	600VDC/ACrms	
400.0nF	0.1nF	$\pm(3.0\% \text{rdg} + 5\text{dgt})$		
4.000μF	0.001μF			
40.00μF	0.01μF			
100.0μF	0.1μF	$\pm(4.0\% \text{rdg} + 10\text{dgt})$		



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Pag 2 of 3

Diode test

Feature	Test current	Open voltage
►	0.3mA typical	1.5VDC

Frequency with test leads (Autorange)

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

Duty Cycle (Autorange)

Range	Resolution	Accuracy
0.5% ÷ 99.0%	0.1%	$\pm(1.2\% \text{rdg} + 2\text{dgt})$

Temperature with type K probe (Autorange)

Range	Resolution	Accuracy (*)	Overload protection
-20.0 ÷ 399.0°C	0.1°C		
400 ÷ 760°C	1°C	$\pm(3.0\% \text{rdg} + 5^\circ\text{C})$	
-4.0 ÷ 750.0°F	0.1°F		
752 ÷ 1400°F	1°F	$\pm(3.0\% \text{rdg} + 9^\circ\text{F})$	600VDC/ACrms

(*) Accuracy of type K probe not considered



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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 guidelines

Safety:	IEC/EN61010-1
EMC:	IEC/EN61326-1
Insulation:	double insulation
Pollution level:	2
For inside use, max height:	2000m
Measurement 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