



1. ELECTRICAL SPECIFICATIONS

Accuracy is given as \pm (% of reading + no. of least significant digits) at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$, with relative humidity Less than 80% R.H.

DC VOLTAGE

Range	Resolution	Accuracy	Overload Protection
400mV	0.1mV	$\pm(0.8\%\text{rdg}+2\text{dgt})$	660V DC/AC RMS
4V	1mV		
40V	10 mV		
400V	100mV		
600V	1V	$\pm(1.0\%\text{rdg}+2\text{dgt})$	

Input Impedance: 10M Ω to 100 M Ω (400 mV)

AC VOLTAGE

Range	Resolution	Accuracy 50~500Hz	Overload Protection
400mV	0.1mV	$\pm(1.0\%rdg+50dgt)$ (40 - 60 Hz)	660V DC/AC RMS
4V	1mV	$\pm(1.0\%rdg+3dgt)$	
40V	10 mV		
400V	100mV		
600V	1V	$\pm(1.2\%rdg+3dgt)$	

Input Impedance: 10M Ω to 100 M Ω (400 mV)

AC CURRENT

Range	Resolution	Accuracy 50 ~ 60Hz	Overload Protection
40A	0.01A	$\pm(2.0\%\text{rdg}+10\text{dgt})$	600A RMS (60 second)
400A	0.1A		

RESISTANCE

Range	Resolution	Accuracy	MAX. Test Voltage	Overload Protection
400Ω	0.1Ω	±(1.0%rdg+5dgt)	About 1.5 VDC	600V RMS (60 second)
4kΩ	1Ω	±(1.0%rdg+3dgt)	About 0.45 VDC	
40kΩ	10Ω			
400kΩ	100Ω			
4MΩ	1kΩ			
40MΩ	10kΩ	±(3.0%rdg+3dgt)		

FREQUENCY

Range	Resolution	Accuracy	MAX. Test Voltage	Overload Protection
4kHz	1Hz	±(0.8%rdg+3dgt)	3V RMS	600V AC/DC RMS
40kHz	10Hz			
400kHz	100Hz			
4MHz	1kHz			
40MHz	10kHz		5V RMS	



HT4014

Rel. 1.01 of 23/10/07

AC 400A autorange clamp meter

Page 2 of 3

DIODE CHECK

Range	Resolution	Accuracy	Test Voltage
Diode	1mV	$\pm(0.5\%rdg+3dgt)$	<3.3VDC

Overload protection: 600V RMS

AUDIBLE CONTINUITY TEST

Range	Accuracy	Test Voltage
Continuity	Built-in buzzer sounds when reading is below approx. 40 Ω , the buzzer turns off when reading is greater than 40 Ω .	<1.5VDC

Overload protection: 600V RMS



2. GENERAL SPECIFICATIONS

Display:

- The liquid crystal display (LCD) is 3 $\frac{3}{4}$ digits with maximum reading 3999 counts.
- Decimal point and symbol indication
- Backlight function
- Analogical Bargraph
- Automatic polarity indication.


Function:

- DCV, ACV, ACA, OHM, HZ, Diode check and Audible continuity tests.

Measuring rate:

- 2 times per second; 20 times per second for analogical bargraph

Low battery indicator:

- The "  " appears when the battery voltage drops is low

Operating temperature:

- 5°C to 40 °C, 0 - 80 % R.H.

Storage temperature:

- -10°C to 60°C, 0 - 70 % R.H.

General informations:

- Indoor use
- Altitude up to 2000m
- Pollution degree: 2
- Insulation: class 2 (double insulation)
- Max. diameter conductor size : 30 mm

Power supply:

- 2 x 1.5V IEC R03 AAA carbon-zinc or alkaline type batteries
- AutoPowerOFF function for more of 30 minutes of don't work

Dimension:

- 205 (H) x 64 (W) x 39 (L) mm

Weight:

- 280 grams with batteries included.

Applied standards:

- LVD: EN 61010-1 CAT III 600V
- 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