



1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as $\pm$ (%rdg + numbers of digits) at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$, <75%HR

DC VOLTAGE

Range	Resolution	Accuracy	Overload protection
400.0mV	0.1mV	$\pm(0.5\%rdg+2dgt)$	1000VDC 750VACrms
4.000V	0.001V	$\pm(0.5\%rdg+2dgt)$	
40.00V	0.01V		
400.0V	0.1V		
1000V	1V	$\pm(1.0\%rdg+2dgt)$	

Input impedance: $10\text{M}\Omega // <100\text{pF}$

AC TRMS VOLTAGE

Range	Resolution	Accuracy (45 ÷ 400Hz)	Overload protection
400.0mV	0.1mV	Not specified	1000VDC 750VACrms
4.000V	0.001V	±(1.3%rdg+5dgt) (50 ÷ 300Hz)	
40.00V	0.01V	±(1.2%rdg+5dgts) (50 ÷ 500Hz)	
400.0V	0.1V		
750V	1V		

Input impedance: $10\text{M}\Omega // <100\text{pF}$

DC CURRENT

Range	Resolution	Accuracy	Voltage drop	Overload protection
400.0 μ A	0.1 μ A	$\pm(1.0\%\text{rdg}+2\text{dgt})$	<5mV/ μ A	600VACrms
4000 μ A	1 μ A		2Vmax	Fuse 10A/1000V
10.00A	0.01A			

AC TRMS CURRENT

Range	Resolution	Accuracy (50÷500Hz)	Voltage drop	Overload protection
400.0 μ A	0.1 μ A	Not declared	2Vmax	600VACrms
4000 μ A	1 μ A			Fuse 10A/1000V
10.00A	0.01A	$\pm(1.5\%\text{rdg} + 5\text{dgt})$ (50÷399Hz) $\pm(2.0\%\text{rdg} + 5\text{dgt})$ (400÷500Hz)		

RESISTANCE

Range	Resolution	Accuracy	Open voltage	Overload protection
400.0Ω	0.1Ω	±(1.0%rdg+5dgts)	about 0.45V	600VACrms
4.000kΩ	0.001kΩ	±(0.7%rdg+2dgts)		
40.00kΩ	0.01kΩ			
400.0kΩ	0.1kΩ			
4.000MΩ	0.001MΩ	±(1.0%rdg+2dgts)		
40.00MΩ	0.01MΩ	±(1.5%rdg+5dgts)		



HT327

Rel. 1.01 of 22/10/07

CAT IV digital multimeter with TRMS measurements

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DIODE TEST

Range	Resolution	Accuracy	Open voltage	Overload protection
	10mV	$\pm(1.5\%rdg+5dgt)$	<3VDC	600VACrms

TEST CONTINUITY

Range	Buzzer	Open voltage	Overload protection
	R<35Ω	about 0.5VDC	600VACrms

FREQUENCY

Range	Resolution	Accuracy	Sensitività	Overload protection
4.000kHz	0.001kHz	±(0.01%rdg+1dgt)	>1.5VACrms <5VACrms	600VACrms
40.00kHz	0.01kHz			
400.0kHz	0.1kHz			
4.000MHz	0.001MHz			
40.00MHz	0.01MHz			
400.0MHz	0.1MHz	Not declared	>2VACrms <5VACrms	

Minimum pulse duration: 25ns

30% ≤ Duty Cycle ≤ 70%

CAPACITANCE

Range	Resolution	Accuracy	Overload protection
4.000nF	0.001nF	±(3.0%rdg+10dgt)	600VACrms
40.00nF	0.01nF	±(2.0%rdg+8dgt)	
400.0nF	0.1nF		
4.000μF	0.001μF		
40.00μF	0.01μF		
400.0μF	0.1μF	±(5.0%rdg+20dgt)	
4.000mF	0.001mF		
40.00mF	0.01mF		



2. GENERAL SPECIFICATIONS

Display:

- LCD display, 4 digit with maximum reading 3999 counts with sign and decimal point and bargraph
- Automatic polarity indication
- Backlight
- "OL" over range indication

Features:

- HOLD
- MX/MN for maximum and minimum value
- RANGE for manual selection
- REL for relative measurements
- PK for peak measurements
- Auto Power OFF after 30 minutes of don't work

Low battery indication:

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

Operating temperature:

- 0°C to 40°C, <80%HR

Storage temperature:

- -20°C to 60°C, <70%HR

General informations:

- Altitude max: 2000m
- Pollution degree: 2
- Insulation: double insulation

Power supply:

- 1 x 9V alkaline battery type NEDA1604, JIS006P, IEC6F22

Sizes:

- 163(L)x88(W)x48(H) mm

Weight (included batteries):

- 400g

Applied standards:

- LVD: EN 61010-1 CAT IV 600V – CAT III 1000V
- 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