



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
400.0mV	0.1mV	$\pm(0.5\%rdg+2dgt)$	1000VDC 750Vrms
4.000V	0.001V		
40.00V	0.01V		
400.0V	0.1V		
1000V	1V		

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

AC VOLTAGE (TRMS)

Range	Resolution	Accuracy (50~500Hz)	Overload protection
400.0mV	0.1mV	Not specified	1000VDC 750Vrms
4.000V	0.001V	$\pm(1.3\%rdg+5dgt)$ (50 ÷ 300Hz)	
40.00V	0.01V	$\pm(1.2\%rdg+5dgt)$ (50 ÷ 500Hz)	
400.0V	0.1V		
750V	1V		

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

DC CURRENT

Range	Resolution	Accuracy	Output voltage	Overload protection
400.0 μ A	0.1 μ A	$\pm(1.0\%rdg+2dgt)$	<4mV/ μ A	600Vrms
4000 μ A	1 μ A		2V max	Fast fuse 10A / 1000V
10A	10mA			

AC CURRENT (TRMS)

Range	Resolution	Accuracy 50 ~ 500Hz	Output voltage	Overload protection
10A	10mA	$\pm(1.5\%rdg+5dgt)$	2V max	Fast fuse 10A / 1000V

RESISTANCE

Range	Resolution	Accuracy	Open voltage	Overload protection
400.0 Ω	0.1 Ω	$\pm(1.0\%rdg+5dgt)$	1.3V	600Vrms
4.000k Ω	0.001k Ω	$\pm(0.7\%rdg+2dgt)$		
40.00k Ω	0.01k Ω			
400.0k Ω	0.1k Ω	$\pm(1.0\%rdg+2dgt)$		
4.000M Ω	0.001M Ω			
40.00M Ω	0.01M Ω	$\pm(1.5\%rdg+2dgt)$		



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Rel. 1.00 of 05/05/05

TRMS digital multimeter up to 4000 counts with RS232 interface Page 2 of 3

FREQUENCY

Range	Resolution	Accuracy	Sensitivity	Overload protection
4000Hz	1Hz	$\pm(0.01\%rdg+1dgt)$	>1.5VACrms <5VACrms	600Vrms
40.00kHz	0.01kHz			
400.0kHz	0.1kHz			
4.000MHz	0.001MHz			
40.00MHz	0.01MHz			
			>2VACrms <5VACrms	

CAPACITANCE

Range	Resolution	Accuracy	Overload protection
4.000nF	0.001nF	$\pm(3.0\%rdg+10dgt)$	600Vrms
40.00nF	0.01nF	$\pm(2.0\%rdg+8dgt)$	
400.0nF	0.1nF		
4.000 μ F	0.001 μ F		
40.00 μ F	0.01 μ F		
400.0 μ F	0.1 μ F	$\pm(5.0\%rdg+2dgt)$	
4.000mF	0.001mF		
40.00mF	0.01mF		

DIODE TEST

Range	Resolution	Accuracy	Test current	Open Voltage
	10mV	$\pm(1.5\%rdg+5dgt)$	1.5mA	<3V

Overload protection: 600Vrms

TEST CONTINUITY

Range	Buzzer	Overload protection
	R<450 Ω	600Vrms



2. GENERAL SPECIFICATIONS

Display:

- LCD display, 4 digit with maximum reading 4000 counts with analogical bargraph
- Automatic polarity indication.
- "OL" over range indication


Features:

- MAX and MIN
- HOLD
- Manual Range selection
- PEAK
- REL
- Backlight
- RS-232 interface
- AutoPowerOFF after 30 minutes

Measuring rate:

- 1.5 times per second.

Low battery indicator:

- The "  " appears when the battery voltage is low

Operating temperature:

- 0°C to 30 °C, <80%RH

Storage temperature:

- -20°C to 60°C, <80%RH

General informations:

- Altitude up to 2000m
- Pollution degree: 2
- Insulation: class 2 (double insulation)

Power supply:

- Single 9V alkaline battery type NEDA1604, JIS006P, IEC6F22

Dimension(with holster):

- 164(L)x82(W)x44(H) mm.

Weight (included battery):

- 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