



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	$\pm(0.5\%\text{rdg}+2\text{dgt})$	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	$\pm(1.3\%\text{rdg}+5\text{dgt})$	
40.00V	0.01V	(50 ÷ 300Hz)	
400.0V	0.1V	$\pm(1.2\%\text{rdg}+5\text{dgt})$	
750V	1V	(50 ÷ 500Hz)	

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

DC CURRENT

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

AC CURRENT (TRMS)

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

RESISTANCE

Range	Resolution	Accuracy	Open voltage	Overload protection
400.0Ω	0.1Ω	±(1.0%rdg+5dgt)	1.3V	600Vrms
4.000kΩ	0.001kΩ	±(0.7%rdg+2dgt)		
40.00kΩ	0.01kΩ			
400.0kΩ	0.1kΩ			
4.000MΩ	0.001MΩ	±(1.0%rdg+2dgt)		
40.00MΩ	0.01MΩ	±(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	±(0.01%rdg+1dgt)	>1.5VACrms <5VACrms	600Vrms
40.00kHz	0.01kHz			
400.0kHz	0.1kHz		>2VACrms <5VACrms	
4.000MHz	0.001MHz			
40.00MHz	0.01MHz			

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		
4.000μF	0.001μF		
40.00μF	0.01μF		
400.0μF	0.1μF		
4.000mF	0.001mF	$\pm(5.0\%rdg+2dgt)$	
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<450Ω	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