



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	$\pm(0.6\%rdg+2gt)$	1000V RMS
4V	1mV		
40V	10mV		
400V	0.1V		
1000V	1V		

Input Impedance: $10\text{M}\Omega$

AC VOLTAGE

Range	Resolution	Accuracy		Overload Protection
		40~200Hz	200~500Hz	
400mV	0.1mV	$\pm(2\%rdg+10dgt)$	No SPEC.	1000V RMS
4V	1mV	$\pm(2\%rdg+2dgt)$		
40V	10mV			
400V	0.1V			
1000V	1V	$\pm(2.2\%rdg+5dgt)$		

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

DC CURRENT

Range	Resolution	Accuracy	shunt	Overload Protection
400 μA	0.1 μA	$\pm(1.5\%rdg+2dgt)$	500 Ω	0.5A/660V (or700V) Quick Acting Fuse
4000 μA	1 μA		50 Ω	
40 mA	10 μA		5 Ω	
400 mA	0.1 mA		0.5 Ω	
10 A	10mA	$\pm(1.5\%rdg+5dgt)$	0.05 Ω	10A/600V Quick Acting Fuse



AC CURRENT

Range	Resolution	Accuracy 40 ~ 500Hz	shunt	Overload Protection
400 μ A	0.1 μ A	$\pm(2\%rdg+2dgt)$	500 Ω	0.5A/660V (or700V) Quick Acting Fuse
4000 μ A	1 μ A		50 Ω	
40 mA	10 μ A		5 Ω	
400 mA	0.1 mA		0.5 Ω	
10 A	10mA	$\pm(2\%rdg+5dgt)$	0.05 Ω	10A/600V Quick Acting Fuse

RESISTANCE

Range	Resolution	Accuracy	MAX. Test Voltage	Overload Protection
400 Ω	0.1 Ω	$\pm(0.6\%rdg+3dgt)$	1.2V	600V RMS
4k Ω	1 Ω		0.45V	
40k Ω	10 Ω			
400k Ω	100 Ω			
4M Ω	1k Ω	$\pm(1.2\%rdg+3dgt)$		
40M Ω	10k Ω	$\pm(2\%rdg+3dgt)$		

Instant Continuity: Built-in buzzer sounds when resistance is less than 34.5 Ω . The buzzer turns off when resistance is greater than 35.0 Ω

DIODE CHECK

Range	Resolution	Accuracy	Test Current	Test Voltage
Diode	1 mV	$\pm(1.0\%rdg+2dgt)$	approx. 1.65mA	<3V

Overload protection: 600V RMS

AUDIBLE CONTINUITY TEST

Range	Resolution	Accuracy	Test Voltage
400 Ω	0.1 Ω	Built-in buzzer sounds when reading is below approx. 34.5 Ω , the buzzer turns off when reading is greater than 35.0 Ω .	<3V

Overload protection: 600V RMS



2. GENERAL SPECIFICATIONS

Display:

- The liquid crystal display (LCD) is 4 digits with maximum reading 3,999 counts.
- 41 segments analog bar graph and full annunciator
- Automatic polarity indication.


Function:

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

Measuring rate:

- 1.3 times per second.

Low battery indicator:

- The "  " appears when the battery voltage drops below 6.3V~7.5V (approx.).

Operating temperature:

- 0°C to 40 °C, 0 - 80 % R.H.

Storage temperature:

- -20°C to 60°C, 0 - 80 % R.H.

General informations:

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

NMRR (Normal Mode Rejection Ratio):

- This series has a NMRR specification of > 60 dB at 50Hz and 60 Hz, which means a good ability to reject the effect of AC noise in DC measurement.

CMRR (Common Mode Rejection Ratio):

- This series has a CMRR specifications of >60 dB at DC to 60 Hz in the ACV function; and > 120 dB at DC, 50 Hz and 60 Hz in the DCV function.

Power supply:

- Single standard NEDA1604, JIS006P, IEC6F22 carbon-zinc or alkaline type 9V battery.

Dimension:

- 58 (H) * 83 (W) * 178 (L) mm.

Weight:

- 400 grams with batteries included.

Applied standards:

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