



## 1. ELECTRICAL SPECIFICATIONS

Accuracy calculated as  $\pm$  [% reading + (number of dgt \* resolution)] at 18°C ÷ 28°C, <70%RH

### DC VOLTAGE (Autorange)

Range	Resolution	Accuracy	Overload protection
4.000V	0.001V	$\pm(1.2\%rdg+2dgt)$	600VDC/ACrms
40.00V	0.01V		
400.0V	0.1V		
600V	1V	$\pm(1.5\%rdg+2dgt)$	

Input impedance: 7.8M $\Omega$

### AC VOLTAGE (Autorange)

Range	Resolution	Accuracy (50 ÷ 400Hz)	Overload protection
4.000V	0.001V	$\pm(1.2\%rdg+4dgt)$	600VDC/ACrms
40.00V	0.01V	$\pm(1.5\%rdg+3dgt)$	
400.0V	0.1V		
600V	1V	$\pm(2.0\%rdg+4dgt)$	

Input impedance: 7.8M $\Omega$

### RESISTANCE (Autorange)

Range	Resolution	Accuracy	Overload protection
400.0 $\Omega$	0.1 $\Omega$	$\pm(1.2\%rdg+4dgt)$	250VDC/ACrms
4.000k $\Omega$	0.001k $\Omega$	$\pm(1.0\%rdg+2dgt)$	
40.00k $\Omega$	0.01k $\Omega$	$\pm(1.2\%rdg+2dgt)$	
400.0k $\Omega$	0.1k $\Omega$		
4.000M $\Omega$	0.001M $\Omega$	$\pm(2.0\%rdg+3dgt)$	
40.00M $\Omega$	0.01M $\Omega$		

### DIODE TEST

Range	Resolution	Accuracy	Open voltage	Overload protection
	1mV	$\pm(10\%rdg+5dgt)$	circa 1.5VDC	250VDC/ACrms

### CONTINUITY TEST

Range	Buzzer	Test current	Overload protection
	R<35 $\Omega$	<0.3VmA	250VDC/ACrms

### FREQUENCY (Autorange)

Range	Resolution	Accuracy	Sensitivity	Overload protection
5.000Hz	0.001Hz	$\pm(1.5\%rdg+5dgt)$	>8Vrms	250VDC/ACrms
50.00Hz	0.01Hz			
500.0Hz	0.1Hz	$\pm(1.2\%rdg+3dgt)$		
5.000kHz	10Hz			
50.00kHz	10Hz			
500.0kHz	100Hz	$\pm(1.5\%rdg+4dgt)$		
5.000MHz	1kHz			
10.00MHz	10kHz			

**Note:** on AC Voltage the frequency range is: 10Hz ÷10kHz ; Sensitivity: > 15Vrms



## DUTY CYCLE (Autorange)

Range	Resolution	Accuracy	Sensitivity	Overload protection
0.5 - 99%	0.1%	$\pm(1.2\%rdg + 2dgt)$	>8Vrms	250VDC/ACrms

100 $\mu$ s < pulse duration < 100ms ; Frequency range: 5Hz  $\pm$  150Hz

**Note:** on AC Voltage the frequency range is: 10Hz  $\pm$  10kHz ; Sensitivity: > 15Vrms

## CAPACITANCE (Autorange)

Range	Resolution	Accuracy	Overload protection
40.00nF	0.01nF	$\pm(5.0\%rdg+7dgt)$	250VDC/ACrms
400.0nF	0.1nF	$\pm(3.0\%rdg+5dgt)$	
4.000 $\mu$ F	0.001 $\mu$ F		
40.00 $\mu$ F	0.01 $\mu$ F		
100.0 $\mu$ F	0.1 $\mu$ F	$\pm(5.0\%rdg+5dgt)$	



## 2. GENERAL SPECIFICATIONS


### Display:

- LCD, 4 dgt, 4000 points plus sign and decimal point
- Automatic polarity indication
- Backlight
- "OL" overrange indication

### Features:

- HOLD
- REL
- Auto Power OFF after 30 minutes of idleness

### Low battery indication:

- "  " appears when the battery voltage is low

### Working temperature:

- 0 °C to 50 °C, <70%HR

### Storage temperature:

- -20 °C to 60 °C, <80%HR

### General information:

- Max altitude: 2000m
- Pollution degree: 2
- Insulation: double insulation

### Power supply:

- 1x9V battery NEDA 1604 IEC 6F22
- Battery life: ca 30h (backlight ON), ca 130h (backlight OFF)

### Dimensions (L x W x H):

- 145 x 70 x 60mm
- Mechanical protection: IP40

### Weight (included battery):

- 245g

### Applied standards:

- Safety : IEC/EN 61010-1 CAT III 600V
- EMC: /EC/EN61326-1

**This instrument satisfies the requirements of Low Voltage Directive 2014/35/EU (LVD) and of EMC Directive 2014/30/EU**

**This instrument satisfies the requirements of European Directive 2011/65/EU (RoHS) and 2012/19/EU (WEEE)**