



## 1. ELECTRICAL SPECIFICATIONS

Accuracy calculated as  $\pm[\% \text{reading} + (\text{num dgt} * \text{resolution})]$  ta 18°C ÷ 28°C, <75%HR

### DC VOLTAGE

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

Input impedance: 7.8M $\Omega$

### AC TRMS VOLTAGE

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

(\*) Accuracy specified from 5% to 100% of measurement range, Frequency range: 50Hz ÷ 400Hz

Input impedance: 7.8M $\Omega$

### RESISTANCE

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

### DIODE TEST

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

### CONTINUITY TEST

Range	Buzzer	Test current	Overload protection
	R<30 $\Omega$	<0.3VmA	250VDC/ACrms

### FREQUENCY

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

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

**DUTY CYCLE**

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

100 $\mu$ s < pulse width < 100ms ; Frequency range: 5Hz  $\div$  150kHz

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

**CAPACITANCE**

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	$\pm(5.0\%rdg+5dgt)$	

**TEMPERATURE WITH TYPE K PROBE**

Range	Resolution	Accuracy (*)	Overload protection
-20°C $\div$ 400°C	0.1°C	$\pm(3.0\%rdg+5^{\circ}C)$	250VDC/ACrms
400°C $\div$ 760°C	1°C		
-4°F $\div$ 752°F	0.1°F	$\pm(3.0\%rdg+9^{\circ}F)$	
752F $\div$ 1400°F	1°F		

(\*) Accuracy of instrument without probe



## 2. GENERAL SPECIFICATIONS


### Display:

- LCD Display, 4 dgt, 4000 counts, sign and decimal point
- Automatic polarity indication
- Backlight
- "OL" over range indication

### Features:

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

### Low battery indication:

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

### Operating temperature:

- 0°C ÷ 50°C, <70%HR

### Storage temperature:

- -20°C ÷ 60°C, <80%HR

### General informations:

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

### Power supply:

- 1x9V alkaline battery NEDA 1604 IEC 6F22

### Dimensions (L x W x H)

- 175 x 85 x 55mm

### Weight (included battery)

- 360g

### Reference guidelines:

- Safety :IEC/EN61010-1, CAT IV 600V
- EMC: IEC/EN61326-1

**This product conforms to the prescriptions of the European directive on low voltage 2006/95/EEC and to EMC directive 2004/108/EEC**  
**This product conforms to the prescriptions of the European directive 2011/65/EU (RoHS) and the European directive 2012/19/EU (WEEE)**