

1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as $\pm[\% \text{ reading} + (\text{number of dgt} * \text{resolution})]$ at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}, < 80\% \text{RH}$

DC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
400.0mV	0.1mV	$\pm(2.0\% \text{rdg} + 8 \text{dgt})$	10M Ω	600VDC/ACrms
4.000V	0.001V	$\pm(2.0\% \text{rdg} + 3 \text{dgt})$		
40.00V	0.01V			
400.0V	0.1V			
600V	1V	$\pm(1.2\% \text{rdg} + 3 \text{dgt})$		

AC TRMS VOLTAGE

Range	Resolution	Accuracy (50Hz ÷ 400Hz)	Input impedance	Overload protection
4.000V	0.001V	$\pm(2.0\% \text{rdg} + 5 \text{dgt})$	10M Ω	600VDC/ACrms
40.00V	0.01V	$\pm(1.5\% \text{rdg} + 3 \text{dgt})$		
400.0V	0.1V			
600V	1V	$\pm(2.0\% \text{rdg} + 4 \text{dgt})$		

DC CURRENT

Range	Resolution	Accuracy	Overload protection
400.0 μ A	0.1 μ A	$\pm(1.5\% \text{rdg} + 3 \text{dgt})$	Fast fuse 500mA/600V
4000 μ A	1 μ A		
40.00mA	0.01mA		
400.0mA	0.1mA		
4.000A	0.001A	$\pm(2.5\% \text{rdg} + 5 \text{dgt})$	Fast fuse 10A/600V
10.00A	0.01A		

AC TRMS CURRENT

Range	Resolution	Accuracy (50Hz ÷ 400Hz)	Overload protection
400.0 μ A	0.1 μ A	$\pm(2.0\% \text{rdg} + 5 \text{dgt})$	Fast fuse 500mA/600V
4000 μ A	1 μ A	$\pm(2.5\% \text{rdg} + 5 \text{dgt})$	
40.00mA	0.01mA		
400.0mA	0.1mA		
4.000A	0.001A	$\pm(3.0\% \text{rdg} + 7 \text{dgt})$	Fast fuse 10A/600V
10.00A	0.01A		

(*) Accuracy referred to sinusoidal waveform. For not sinusoidal waveforms the accuracy is $\pm(10.0\% \text{rdg} + 5 \text{dgt})$

RESISTANCE AND CONTINUITY TEST

Range	Resolution	Accuracy	Buzzer	Overload protection
400.0 Ω	0.1 Ω	$\pm(1.0\% \text{rdg} + 4 \text{dgt})$	<50 Ω	250VDC/ACrms
4.000k Ω	0.001k Ω	$\pm(1.5\% \text{rdg} + 5 \text{dgt})$		
40.00k Ω	0.01k Ω			
400.0k Ω	0.1k Ω			
4.000M Ω	0.001M Ω			
40.00M Ω	0.01M Ω			



DIODE TEST

Function	Max open voltage	Overload protection
	3VDC	250VDC/ACrms

FREQUENCY

Range	Resolution	Accuracy	Sensitivity	Overload protection
9.999Hz	0.001Hz	$\pm(1.5\%rdg+5dgt)$	>8Vrms	250VDC/ACrms
99.99Hz	0.01Hz			
999.9Hz	0.1Hz	$\pm(1.2\%rdg+3dgt)$		
9.999kHz	0.001kHz			

DUTY CYCLE

Range	Resolution	Accuracy	Sensitivity	Overload protection
0.1 – 99.9%	0.1%	$\pm(1.2\%rdg + 2dgt)$	>8Vrms	250VDC/ACrms

100 μ s < impulse duration < 100ms ; Frequency range: 5Hz ÷ 150Hz

CAPACITANCE

Range	Resolution	Accuracy	Overload protection
40.00nF	0.01nF	$\pm(5.0\%rdg+35dgt)$	250VDC/ACrms
400.0nF	0.1nF	$\pm(3.0\%rdg+5dgt)$	
4.000 μ F	0.001 μ F		
40.00 μ F	0.01 μ F	$\pm(4.0\%rdg+5dgt)$	
400.0 μ F	0.1 μ F		
4000 μ F	1 μ F	$\pm(5.0\%rdg+5dgt)$	

TEMPERATURE WITH TYPE K PROBE

Range	Resolution	Accuracy (*)	Overload protection
-20.0°C ÷ 760.0°C	0.1°C	$\pm(3.0\%rdg+5^{\circ}C)$	250VDC/ACrms
-4.0°F ÷ 1400.0°F	0.1°F	$\pm(3.0\%rdg+9^{\circ}F)$	

(*) Accuracy of only instrument without probe

2. GENERAL SPECIFICATIONS


Display:

- LCD, 3 $\frac{3}{4}$ dgt, 4000 points plus sign and decimal point
- Sampling rate: 2 times/s
- Automatic polarity indication
- Backlight
- “OL” overrange indication
- Conversion: TRMS

Features:

- Data HOLD, MAX/MIN

Low battery indication:

- “” appears when the battery voltage is low

Operating temperature:

- 5 °C to 50 °C, <80%RH

Storage temperature:

- -20 °C to 60 °C, <80%RH

General information:

- Max height of use: 2000m
- Pollution degree: 2
- Insulation: double insulation
- Mechanical protection: IP40

Power supply:

- 1x9V battery NEDA 1604 IEC 6F22
- Auto Power OFF: after 15 min of idleness
- Protection fuses: fast 10A/600V, 5x20mm (**10A** input)
fast 500mA/600V, 5x20mm (**mA μ A** input)

Dimensions (L x W x H):

- 145 x 70 x 60mm

Weight (included battery):

- 240g

Reference guidelines:

- Safety : IEC/EN61010-1
- EMC: IEC/EN61326-1
- Measurement category: CAT III 600V to ground

This product conforms to the prescriptions of the European directive on low voltage 2014/35/EU and to EMC directive 2014/30/EU
This product conforms to the prescriptions of the European directive 2011/65/EU (RoHS) and the European directive 2012/19/EU (WEEE)