



1. ELECTRICAL SPECIFICATIONS

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

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: $7.8 \text{M}\Omega$

AC TRMS VOLTAGE

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

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

Input impedance: $7.8 \text{M}\Omega$

RESISTANCE

Range	Resolution	Accuracy	Overload protection
400.0Ω	0.1Ω	±(1.2%rdg+4dgt)	250VDC/ACrms
4.000kΩ	0.001kΩ	±(1.0%rdg+2dgt)	
40.00kΩ	0.01kΩ	±(1.2%rdg+2dgt)	
400.0kΩ	0.1kΩ		
4.000MΩ	0.001MΩ		
40.00MΩ	0.01MΩ	±(2.0%rdg+3dgt)	

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 $<30\Omega$	$<0.3 \text{VmA}$	250VDC/ACrms

FREQUENCY

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

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

**DUTY CYCLE**

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

100 μ s < pulse width <100ms ; Frequency range: 5Hz ÷ 150kHz

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

CAPACITANCE

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

TEMPERATURE WITH TYPE K PROBE

Range	Resolution	Accuracy (*)	Overload protection
-20°C ÷ 400°C	0.1°C	±(3.0%rdg+5°C)	250VDC/ACrms
400°C ÷ 760°C	1°C		
-4°F ÷ 752°F	0.1°F	±(3.0%rdg+9°F)	
752F ÷ 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)