



## 1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as  $\pm$  (%rdg + numbers of digits) at 23°C  $\pm$  5°C, <75%HR

### DC VOLTAGE

Range	Resolution	Accuracy	Overload protection
400.0mV	0.1mV	$\pm(0.8\%rdg+3dgt)$	600VDC/ACrms
4.000V	0.001V	$\pm(0.8\%rdg+2dgt)$	
40.00V	0.01V		
400.0V	0.1V		
600V	1V	$\pm(1.0\%rdg+2dgt)$	

Input impedance: 10M $\Omega$

### AC VOLTAGE

Range	Resolution	Accuracy (45 ÷ 400Hz)	Overload protection
400.0mV	0.1mV	Not specified	600VDC/ACrms
4.000V	0.001V	$\pm(1.0\%rdg+3dgt)$	
40.00V	0.01V		
400.0V	0.1V		
600V	1V	$\pm(1.2\%rdg+3dgt)$	

Input impedance: 10M $\Omega$

### DC CURRENTS

Range	Resolution	Accuracy (*)	Voltage drop	Overload protection
10A	0.01A	$\pm(1.2\%rdg+3dgt)$	200mV	Fuse 10A/600V

(\*) Accuracy declared for current up to 6A in continuous mode, up to 7A for measures up to 3min, other for measures up to 2min

### AC CURRENTS

Range	Resolution	Accuracy (*)	Voltage drop	Overload protection
10A	0.01A	$\pm(2.0\%rdg+5dgt)$	200mV	Fuse 10A/600V

(\*) Accuracy declared for current up to 6A in continuous mode, up to 7A for measures up to 3min, other for measures up to 2min

### RESISTANCE

Range	Resolution	Accuracy	Open voltage	Overload protection
400.0 $\Omega$	0.1 $\Omega$	$\pm(1.0\%rdg+8dgt)$	about 0.4V	600VDC/ACrms (< 30sec)
4.000k $\Omega$	0.001k $\Omega$	$\pm(1.0\%rdg+2dgt)$		
40.00k $\Omega$	0.01k $\Omega$			
400.0k $\Omega$	0.1k $\Omega$			
4.000M $\Omega$	0.001M $\Omega$			
40.00M $\Omega$	0.01M $\Omega$	$\pm(2.0\%rdg+2dgt)$		

### DIODE TEST

Range	Direct voltage	Accuracy	Open voltage	Overload protection
	0 – 1.000V	$\pm(0.5\%rdg+3dgt)$	about 1.5VDC	600VACrms (< 30sec)

**TEST CONTINUITY**

Range	Buzzer	Open voltage	Overload protection
·))	R<120Ω	about 0.5VDC	600VACrms (< 30sec)

**FREQUENCY**

Range	Resolution	Accuracy	Overload protection
99.99Hz	0.01Hz	±(1.5%rdg+5dgt)	600VDC/ACACrms (< 30sec)
999.9Hz	0.1Hz		
9.999kHz	1Hz		
99.99kHz	10Hz		

**DUTY CYCLE**

Range	Resolution	Accuracy	Overload protection
20 – 80%	0.1%	±(1.0%rdg+5dgt)	600VACrms (< 30sec)

**Limit voltages for Frequency and Duty cycle measurements**

Operating voltage	Frequency
$V_{MIN} \geq 1.5Vp-p$ $V_{MAX} \leq 400Vrms$	0 – 400Hz
$V_{MIN} \geq 1.5Vp-p$ $V_{MAX} \leq 10Vp-p$	400 – 900Hz
$V_{MIN} \geq 3.0Vp-p$ $V_{MAX} \leq 10Vp-p$	900Hz – 100kHz

**CAPACITANCE**

Range	Resolution	Accuracy	Overload protection
5nF	0.001nF	±(5.0%rdg+25dgt)	600VACrms (< 30sec)
50nF	0.01nF	±(3.0%rdg+5dgt)	
500nF	0.1nF		
5μF	0.001μF		
50μF	0.01μF		
100μF	0.1μF(30s)	±(5.0%lrdg+10dgt)	



## 2. GENERAL SPECIFICATIONS


### Display:

- LCD display, 3 ¾ digit with maximum reading 3999 counts with sign and decimal point
- Automatic polarity indication
- Backlight
- "OL" over range indication

### Features:

- HOLD
- RANGE for manual selection
- REL for relative measurements
- Auto Power OFF after 15 minutes of don't work

### Low battery indication:

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

### Operating temperature:

- -5°C to 40°C, <80%HR

### Storage temperature:

- -10°C to 60°C, <70%HR

### General informations:

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

### Power supply:

- 2 x 1.5V alkaline batteries type AAA MN2400 LR03 AM4

### Sizes:

- 163(L)x88(W)x48(H) mm

### Weight (included batteries):

- 280g

### Applied standards:

- LVD: EN 61010-1 CAT IV 600V – CAT III 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**