



## 1. TECHNICAL SPECIFICATIONS

Accuracy indicated as:  $\pm[\%rdg + (\text{num. dgt} * \text{resolution})]$  at  $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ,  $<70\%RH$ 

### DC/AC VOLTAGE MEASUREMENT (LED indications)

Range [V]	Resolution [V]	Frequency range [Hz]	Accuracy	Overload protection
$\pm 12, 24, 50, 120, 230, 400, 690, 1000$	1	0/40Hz $\div$ 400Hz	Compliance with IEC/EN61243-3:2014	1000VDC/AC

### DC/AC VOLTAGE MEASUREMENT (Display indications)

Range [V]	Resolution [V]	Frequency range [Hz]	Accuracy	Overload protection
6 $\div$ 1000	1	0/40Hz $\div$ 400Hz	$\pm(3\%rdg + 5dgt)$	1000VAC/DC

Response time: <1s  
 Peak current: max 3.5mA @1000V  
 Output impedance: 350k $\Omega$  / Is<3.5mA (no RCD tripping)  
 Detection AC/DC voltage: automatic  
 Working time: 30s (240s pause between two measurements)

### AC VOLTAGE MEASUREMENT WITH LOW IMPEDANCE (LoZ)

Range [V]	Resolution [V]	Frequency range	Input impedance	Overload protection
6 $\div$ 1000	1	40Hz $\div$ 400Hz	ca 7k $\Omega$	1000VAC/DC

Max output current: Is (load) = 150mA  
 RCD tripping: ca 30mA @ 230V

### AC VOLTAGE WITH 1 WIRE

Range [V]	Frequency range [Hz]	Measurement method	Overload protection
100 $\div$ 1000	50 $\div$ 400	1-wire with contact on metal live parts	1000VAC

### PHASE SEQUENCE INDICATION

Voltage range [V]	Frequency range [Hz]	Measurement method
100 $\div$ 1000 (Phase – Earth)	50 $\div$ 60	2-wires with contact on metal live parts

### RESISTANCE MEASUREMENT

Range [ $\Omega$ ]	Resolution [ $\Omega$ ]	Accuracy	Test current	Overload protection
0 $\div$ 1999	1	$\pm(5.0\%rdg+10dgt)$	<30 $\mu$ A	1000VAC/DC

### CONTINUITY TEST

Range	Buzzer	Accuracy	Overload protection
»))	<400k $\Omega$	$\pm(5.0\%rdg+10dgt)$	1000VAC/DC



## 2. GENERAL SPECIFICATIONS

### Mechanical specifications

Dimensions (L x W x H):	270 x 70 x 30mm
Weight (included batteries):	290g
Encapsulation:	IP64

### Display

Type:	LCD 3½ dgts, max. 1999 points + sign and backlight
Conversion:	mean value

### Power supply

Internal supply:	2x1.5V alkaline batteries type AAA, IEC LR03
Auto Power OFF:	after 1minutes of idleness (resistance measurement)

### Reference guidelines

Safety:	IEC/EN61010-1, IEC/EN61243-3:2014
EMC:	IEC/EN61326-1
Insulation:	double insulation
Pollution degree:	2
Measurement category:	CAT III 1000V; CAT IV 600V

### Environmental conditions

Reference temperature:	23°C ± 5°C
Working temperature:	-10°C ÷ 55°C
Working humidity:	<85%RH
Storage temperature:	-20°C ÷ 70°C
Storage humidity:	<85%RH
Max height of use:	2000m

**This product conforms to the prescriptions of the European directive on Low Voltage (LVD) 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)**