



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

CONTINUITY TEST

Range	Buzzer	Accuracy	Overload protection
»))	<400k Ω	$\pm(5.0\%rdg+10dgt)$	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)