

# Digital (Up to 1kV) Insulation Tester



CE

1851 IN

## WHY TEST IS NECESSARY?

### Insulation

Every electrical apparatus and installation need to be safe for the user and for the equipment itself.

Electrical conductors of electricity need to be insulated from each other, so that they do not create electrical hazard or unnecessary consumption.

Badly insulated circuits can create leakage current which can be dangerous and trip your GFCI, RCCB or ELCB.

Each country regulate those levels at which the insulation in acceptable.

Generally, Insulation resistance measurements are done between each conductor and the earth, and between each conductors.

### Continuity

Checking the continuity of wires, complete circuits, connections, closure of contacts, circuit breakers, fuses, bounding resistance of connections, etc...are all very important.

## FEATURES

- Measures insulation (M $\Omega$ ), Continuity ( $\Omega$ ) and AC voltage.
- Three insulation test voltages(DC V) : 250V, 500V, 1000V.
- 3½ digit LCD (2000 counts).
- 68 × 34mm (2.677" × 1.338" ) large LCD display.
- Automatic circuit discharge.
- Test insulation at rated voltage into a 1mA load.
- 210mA short circuit testing current for continuity.
- External voltage warning indication.
- Fuse protection.
- BS 16<sup>th</sup> edition

## SPECIFICATIONS

### Insulation Resistance

Test voltage (DC V)	250V	500V	1000V
Measuring ranges	0-200M $\Omega$		0-2000M $\Omega$
Resolution	1 count / 100k $\Omega$		1 count / 1M $\Omega$
Accuracy	$\pm(1.5\%rdg+5dgt)$ (under 1G $\Omega$ /2000M $\Omega$ ) $\pm(5\%rdg+3dgt)$ (under 2G $\Omega$ /2000M $\Omega$ )		
Output voltage on open circuit	Rated test Voltage +10%		
Output current	1mA DC		
Power consumption	250mA		

### Continuity

Measuring ranges	0-20 $\Omega$	0-2k $\Omega$
Accuracy	$\pm(1.5\%rdg+5dgt)$	$\pm(1.5\%rdg+3dgt)$
Resolution	0.01 $\Omega$	1 $\Omega$
Buzzer sound below	under 10 $\Omega$	
Open circuit terminal voltage	4V DC min.	
Short circuit terminal current	210mA DC min.	
Power consumption	Approx. 160mA	

### AC Voltage

Range	0-500V AC
Resolution	1V
Accuracy	$\pm(1.5\%rdg+3dgt)$
Line frequency range	40-120 Hz

### General

Display	3½ digit (2000 counts)
Dimensions	170(L) × 165(W) × 92(D)mm
Weight (battery included)	Approx. 1040g
Power source	1.5V (AA) × 8
Safety standard	EN 61010-1 CAT III 500V EN 61326-1
Accessories	Instruction manual Test leads Shoulder belt Fuse (0.5A 250V) 5×20mm Batteries

