

## DIGITAL INSULATION TESTER (1kV below)



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.

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

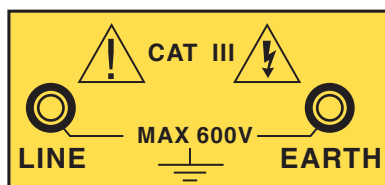
Each country regulates those levels at which the insulation is acceptable.

Generally, Insulation resistance measurement should be 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.

#### Test Leads Connections



### FEATURES

- A LCD indicated instrument for insulation ( $M\Omega$ ), continuity( $\Omega$ ) and AC Voltage.
- Three insulation test voltage (DC): 250V, 500V, 1000V.
- 3-1/2 digital LCD (2000 counts).
- 68 x 34mm large LCD display.
- Test insulation at rated voltage into a 1mA load.
- 200mA short circuit continuity current.
- External voltage warning indication.
- Automatic circuit discharge.
- Fuse protection.
- IEC/EN 61010-1 CAT III 600V
- BS 16<sup>th</sup> edition.

### SPECIFICATIONS

#### Insulation Resistance

Test range (DC V)	250V	500V	1000V
Measuring Ranges	0-200M $\Omega$		0-2000M $\Omega$
Resolution	1 count/100K $\Omega$		1 count/1M $\Omega$
Output Voltage on Open Circuit	Rated test Voltage +10%		
Output Current	1mA DC		
Power Consumption	Max. consumption current Approx. 250mA		
Accuracy	$\pm 1.5\%rdg \pm 5dgt$		$\pm (3\%rdg + 3dgt)$ (under 1G $\Omega$ /2000M $\Omega$ ) $\pm (5\%rdg + 3dgt)$ (under 2G $\Omega$ /2000M $\Omega$ )

#### Continuity

Measuring Ranges	0-20 $\Omega$	0-2k $\Omega$
Resolution	0.01 $\Omega$	1 $\Omega$
Accuracy	$\pm (1.5\%rdg + 5dgt)$	$\pm (1.5\%rdg + 3dgt)$
Buzzer Sound Below	Under 10 $\Omega$	_____
Open Circuit Terminal Voltage	4V DC min	
Short Circuit Terminal Current	210mA DC min.	
Power Consumption	Max. consumption current approx. 160mA	

#### AC Voltage

AC Voltage Range	0-600V
Resolution	1V
Line Frequency Range	40-120Hz
Accuracy	$\pm (1.5\%rdg + 3dgt)$

#### General

Dimension	170(L) × 165(W) × 92(D)mm (with housing front cover)
Weight	1040g(battery included)
Power Source	1.5V(SUM-3) × 8 Type AA.
Accessories	Test leads (AL-24A) Fuse 1A 250V Instruction manual Batteries

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