

# INSULATION TESTER

Motor Operated - MODEL – CIE /777

Motor Cum Hand Operated - MODEL – CIE /777HM



## SPECIAL FEATURES

- Accurate, Quick response and Graceful appearance
- Operated by 230 volts, 50Hz AC mains
- Seasoned wooden cabinet with sunmica finish
- Anti-parallax mirror scale with knife edge pointer
- Highly sensitive cross-coil indicator
- Confirms to ISS : 2992 / 1987
- Can also be operated by Hand in Model : CIE /777HM
- Collapsible Generator handle in Model : CIE /777HM
- Centrifugal clutch (Governor) for Constant output voltage in Model : CIE /777HM

**INSTRUMENTS FOR ACCURACY & RELIABILITY**

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## **CIE /777 – Universal Multi-Purpose Insulation Tester**

Type CIE /777 is a universal multi-purpose instrument for checking insulation and conductance during simulated operating conditions in high-tension electrical and electronic fields.

### **It is ideally useful for maintenance of:**

- Rotating plant machinery
- Distribution networks
- Communication cables
- Insulators
- Control & switching equipments
- Transformers and industrial installations

Dielectric Absorption test requires voltage to be applied for several minutes. Motor-powered operation makes this easy. The high sensitivity enables accurate readings from Polarisation Index Tests.

**Polarisation Index = Resistance after 10 min / Resistance after 1 min**

Better results are obtained with longer test durations.

This mains-operated insulation tester is recommended for every electrical engineer.

CIE/777 saves several hours in locating intermittent shorts, defective connections, insulation and conductor failure – preventing costly repairs and breakdowns.

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## DESCRIPTION

CIE/777 is a test instrument with built-in motor, operated on 220/230V AC, 50Hz.

It features a static rectifier and cross-coil ohm meter, housed in a seasoned wooden cabinet with sunmica finish, detachable lid, carrying handle and lock.

- Terminals support 4mm plug and spade terminations
- Guard ring and guard terminal eliminate surface leakage errors
- Externally accessible Infinity Adjuster provided

## Control Panel Features

- ON/OFF Switch
- Indicating Jewel Lamp for Mains ON
- Safety Fuse protection
- 3-pin socket for input supply with 2m cord

Quick Response Time: 3 seconds when resistance corresponding to central scale is inserted between terminals.

**Conforms to ISS: 2992 / 1987**

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## TECHNICAL DETAILS

Specification	Details
Scale Length	100 mm (Approx.)
Mains Supply	230V, 50Hz
Accuracy	As per IS: 2992-1987
Dimensions	14 × 10 × 10 inch (Approx.) incl. top cover
Weight	CIE/777 – 9 kg (Approx.) CIE/777HM – 12 kg (Approx.)
Response Time	3 seconds

### High Voltage Test

Withstands minimum 2KV or rated voltage +1KV AC (r.m.s.) for 1 minute between electrical circuit & containing case.

### Insulation Resistance Test

Better than 50 Megaohms at 500V DC between circuit & containing case.

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## AVAILABLE RANGES

- From 100V to 5000V DC output voltage
- Insulation range: 10M $\Omega$  to 1,00,000M $\Omega$  depending on voltage range
- Multi-range instruments available with range selector switch
- Special higher resistance ranges available on request

**Note: Anti-parallax mirror scale not provided for triple range & above instruments.**

## ACCESSORIES

### Standard:

2m Mains Cord with 3-pin plug

### Optional (Extra Cost):

- H.V. Testing Leads – 1 pair (2m)
- Rexine Carrying Case

### Extra Facility (Optional):

- 15 minutes Timer

## GUARANTEE

Guaranteed for 12 months against manufacturing defects.

## MOTORISED INSULATION TESTER CUM HAND DRIVEN

### TYPE: CIE /777 HM

Operated on both AC mains as well as hand cranking. (Other details same as Type CIE /777)