



# INSULATION TESTER

Motor Operated

MODEL - CIE /777

Motor Cum Hand Operated

MODEL - CIE /777HM



## SPECIAL FEATURES

- ★ Accurate, Quick response and Graceful appearance ★ CONFIRMSTO ISS : 2992/1987
- ★ Operated by 230volts, 50Hz AC mains
- ★ Seasoned wooden cabinet with sunmica finish
- ★ Anti - parallax mirror scale with knife edge pointer
- ★ Highly Sensitive cross-coil indicator
- ★ 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**

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 the electrical maintenance of Rotating plant machinery, Distribution networks, Communication cables, Insulators and servicing of Control and switching equipments, transformers and industrial installations. Di-electric Absorption test requires the voltage to be applied for several minutes. Operating an instrument under motor power allows this to be done easily. The high sensitivity of the instrument enables sensible reading to be obtained from such polarisation index tests. (Polarisation Index = Resistance after 10 min./Resistance after 1 min.) Better results are obtained by using longer time periods. It is a versatile mains operated insulation tester which is recommended for every electrical engineer.

Type CIE/777 can save several hours in locating intermittent shorts, defective electrical connections, insulation and conductor failure and in preventing costly repairs & break-down insulation value.

#### DESCRIPTION :

Type CIE/777 is a test instrument with a built-in MOTOR Mains operated for use on 220/230Volts. A.C. 50 cycles, a static rectifier and cross coil Ohm meter. It is housed in a seasoned **wooden** cabinet with sunmica finish complete with detachable lid, carrying handle and lock. Terminals are designed to accommodate standard cable terminations including 4 mm plug and spade. The instrument is equipped with a **guard ring around the** line terminal and with a **guard terminal** to eliminate any errors due to surface leakage.

An externally accessible **infinity adjuster** is also provided.

The high insulated panel provided with ON-OFF-SWITCH, INDICATING JEWEL LAMP for Mains ON, **SAFETY FUSE** for protection of Motor and 3 pin socket for input supply with cord for input supply with 3 pin plug of 2 mtrs. Length. **Quick Response** - Response time 3 seconds, when a resistance whose value corresponds to the central scale mark is suddenly inserted between the instrument terminals as per ISS : 2992 / 1987.

#### TECHNICAL DETAILS

<b>SCALE LENGTH</b> : 100mm (Approx.)	<b>HIGH VOLTAGE TEST</b> : Withstands minimum 2KV or (rated voltage + 1) KV A.C.(r.m.s) for 1min. between the electrical circuit & containing case
<b>MAINS SUPPLY</b> : 230V, 50Hz	
<b>ACCURACY</b> : As per IS : 2992-1987	
<b>DIMENSIONS</b> : 14 x 10 x 10 (Approx.) (In inch) (Incl. Top Cover)	<b>INSULATION</b> : Better than 50 Megohms at 500VD.C. between the electrical circuit & the containing case.
<b>WEIGHT</b> : CIE / 777 9kg (Approx.) (Including top cover) CIE / 777HM 12kg. (Approx.)	<b>RESISTANCE TEST</b>
<b>RESPONSE TIME</b> : 3 seconds	

#### AVAILABILITY OF RANGE/S :

Generally available from 100V to 5000V DC o/p voltage ( single or multiple output range at options ) with respectively suitable insulation range from 10MΩ to 1,00,000MΩ depending upon the o/p voltage range chosen. (Multi-range instruments are provided with range selector switch) Special (higher) resistance can also be manufactured against specific enquiries.

(Note.: Anti - parallax mirror scale is not provided for Triple range & above instruments)

**GUARANTEE** : Guaranteed for a period of 12 (Twelve) months against any manufacturing defects.

#### STANDARD ACCESSORIES :

Mains Cord (2mtrs length) -1N0

#### OPTIONAL ACCESSORIES : (At Extra Cost)

1. H.V. Testing leads-1pair (2 mtrs length)
2. Rexine Carrying Case

**Extra facility** (optional) : 15 minutes Timer Facility (at extra cost)

### MOTORISED INSULATION TESTER CUM HAND DRIVEN TYPE CIE/777 HM

Operated on both A.C. Mains as well as hand cranking *OTHER DETAILS AS per Type CIE / 777*

"CIE" in a continuing efforts to offer excellent products at a fair value, reserves the right to change models, specifications and designs without notice.

Manufactured & Designed by :

# CAMBRIDGE INSTRUMENTS & ENGINEERING CO