

# INSULATION TESTER

HAND DRIVEN GENERATOR TYPE (METAL BODY)

MODEL : CIE /444



## SPECIAL FEATURES

- Silent Generator
- Centrifugal Clutch (Governor) for constant output voltage
- Collapsible driven handle – folds back flush into casing when not in use
- Chuck nut locking arrangement to prevent anti clockwise rotation
- Wide & anti-parallax mirror scale
- Long life & strength against vibration & impact
- Accurate & quick response
- Graceful appearance
- Conforms to ISS : 2992/1987
- Anti-magnetic aluminium body
- Protected metallic flap over the glass window to scale
- Guard terminal & an externally accessible infinity adjuster are provided for instruments having insulation range 1000 megohms & above

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### APPLICATION

“CIE” Insulation Tester is a compact portable unit incorporating most modern features used for direct reading of electrical operating machines, rotating plant equipment, stationary apparatus, insulation control and switching equipment, distribution networks, communication cables, insulators, transformers, industrial installations, cable, electrical components, wiring and other devices capable of carrying the rated voltage. It is a versatile instrument in locating intermittent shorts, defective electrical connections, insulations and conductor failure and in preventing costly repairs & breakdown insulation value.

### PRINCIPLE

“CIE” Insulation Tester consists of a hand driven clutch type A.C. generator and a high sensitive cross coil indicator. The A.C. voltage generated is converted into D.C. voltage by silicon diodes.

### CONSTRUCTION

Rugged yet light, the instrument is housed in a sturdy and elegant aluminium casted case with metallic carrying handle which makes the instrument conveniently portable. The dust-free instrument has rubber shoes that hold the surface and give the instrument stability. Protected metallic flap over the glass window of scale.

### SALIENT FEATURES – GENERATOR

The A.C. generator drives extremely silent and smooth because of excellent dynamic balance of rotating parts and is free from any mechanical noise.

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## **GOVERNOR**

High grade centrifugal governor holds constant voltage for accurate measurement. Variation in speed rotation does not affect the reading as it is provided with cut-off clutch to cut it beyond the rated speed of rotation.

## **GENERATOR DRIVEN HANDLE – Collapsible**

Fold back flush into the casing when tester is not in use.

## **QUICK RESPONSE**

Response time is 3 seconds, when a resistance whose value corresponds to the central scale mark is suddenly inserted between the measurement terminals as per ISS-2992-1987.

## **RANGES**

CIE /444 are available from 100V to 5000V with respectively suitable resistance range. Special resistance range can also be manufactured against specific enquiries. Multirange instruments are also manufactured provided with range selector switch.

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

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

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## TECHNICAL DETAILS

TECHNICAL DETAILS	Specification
Scale Length	90 mm (approx.)
Accuracy	Confirms to ISS-2992-1987
Rotation Speed	160 or more r.p.m.
Weight	2.5 kg approx.
Dimensions (in mm)	110 × 128 × 195 mm (approx.)
High Voltage Test	Withstands minimum 2000 volts or (Rated Voltage + 1000) volts A.C. (rms) between the electrical circuit and the handle for one minute
Insulation Resistance Test	Better than 50 megohms at 500 V between the electrical circuit and the containing case
Response Time	3 seconds
Guarantee	Guaranteed for 12 months against any manufacturing defects