

CIE INSULATION TESTER

Hand Driven Generator Type (Wooden Body)

Model: CIE /666



Reliable Insulation Testing with Traditional Engineering Excellence

CIE Insulation Tester (Model CIE/666) is a precision-engineered, hand-driven generator type instrument specially designed for accurate measurement of insulation resistance in electrical equipment. Built with a seasoned wooden body and high-sensitivity cross coil indicator, this tester ensures durability, portability, and dependable performance in field as well as laboratory conditions.

Designed and manufactured by Cambridge Instruments & Engineering Co., this instrument reflects decades of expertise in electrical test and measuring technology.



SPECIAL FEATURES

- Silent Generator
- Graceful appearance
- Accurate & Quick response
- Confirms to ISS : 2992 / 1987
- High sensitive cross coil indicator
- Wide & Anti parallax mirror scale
- Collapsible Driven Handle, fold back flush into casing when not in use
- Long life & strength against vibration & impact
- Chuck nut locking arrangement to prevent Anti-clockwise Rotation
- Seasoned wooden Body with sunmica finish complete with detachable Lid, carrying handle & lock
- Centrifugal Clutch (Governor) for Constant output voltage
- Guard Terminal & an externally accessible infinity adjuster provided for instrument having insulation range 1000 megohms & above

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 voltages. It is a Versatile instrument in locating intermittent shorts, defective electrical connections insulation and conductor failure and in preventing costly repairs & break down 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.



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CONSTRUCTION

Rugged yet light the instrument is housed in a sturdy and elegant seasoned wooden body with sunmica finish complete with detachable lid, carrying handle & lock which makes the instrument conveniently portable. The DUST FREE INSTRUMENT. Rubber shoes hold the surface and gives the instrument stability.

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.



PARAMETER	SPECIFICATION
Scale Length	100 mm (approx.)
Accuracy	Confirms to ISS : 292-1987
Rotation Speed	160 or more r.p.m.
Weight	4.1 kg (approx.)
Dimensions (in mm)	265 X 165 X 185 (approx.)
High Voltage Test	Withstands minimum 2000 Volts or (Rated Voltage + 1000) Volts A.C. (rms) between the electrical
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

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GOVERNOR

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

GENERATOR DRIVEN HANDLE - Collapsible

Folds 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 IS:292-1987.

RANGES

CIE /666 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.

CAMBRIDGE INSTRUMENTS & ENGINEERING CO.

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