CAMBRIDGE INSTRUMENTS & ENGINEERING CO.
Instruments for Accuracy & Reliability

Professional Testing. Reliable Performance. Built for Industry.

7000 SERIES OIL TEST SET

Transformer Oil Breakdown Voltage Test Set

Manual & Motor Operated Models | IS 6792:1992

The CIE 7000 Series Oil Test Set is designed for accurate determination of the dielectric breakdown strength of transformer oil and insulating oil used in transformers, switchgear and circuit breakers.

Built in accordance with IS 6792:1992, it delivers continuously variable high voltage output with comprehensive safety interlocks for fast, reliable and safe testing.

OPEN CHAMBER VIEW

OIL CELL / TEST VESSEL

- MANUAL / MOTOR OPERATED
- ANALOG / DIGITAL DISPLAY AVAILABLE
- CAST RESIN H.V. TRANSFORMER
- ZERO START INTERLOCK
- H.V. CHAMBER SAFETY INTERLOCK
- MEMORY FUNCTION
- CONTINUOUSLY VARIABLE OUTPUT

KEY FEATURES

- Continuously Variable Output
- Manual & Motor Operated
- Digital kV Display
- Memory Breakdown Voltage
- Cast Resin H.V. Transformer
- Adjustable Oil Cell
- Smooth Voltage Regulation
- Zero Start Interlock
- Chamber Safety Interlock
- IS 6792:1992 Compliant

Both analog and digital display models available.

TECHNICAL SPECIFICATIONS

Applicable Standard	IS 6792:1992
Output Voltage	Continuously Variable (Model Dependent)
Transformer Type	Cast Resin High Voltage Transformer with Centre Point Grounded
Voltage Regulation	Variable Autotransformer for smooth and continuous control
Metering	Analog or Digital kV Display (As per model)
Test Cell	Non-absorbent insulating material
Electrode Type	Two Brass Spherical Electrodes (Ø 12.5 – 13 mm)
Electrode Gap	Adjustable: 2.5 mm / 4 mm
Input Supply	230V AC ±10%, 50Hz, Single Phase
Available Versions	Manual Operated / Motor Operated

MODEL RANGE

Motor Operated	Manual Operated	Output Voltage (AC Volts) *	Capacity
CIE / 7050 MOT	CIE / 7050	0 – 50 kV	500 VA
CIE / 7060 MOT	CIE / 7060	0 – 60 kV	600 VA
CIE / 7070 MOT	CIE / 7070	0 – 70 kV	700 VA
CIE / 7090 MOT	CIE / 7090	0 – 90 kV	900 VA
CIE / 7100 MOT	CIE / 7100	0 – 100 kV	1000 VA
CIE / 7120 MOT	CIE / 7120	0 – 120 kV	1200 VA

INPUT
230V AC ±10%
50 Hz
Single Phase AC

DUTY
Intermittent
(5 min ON / 10 min OFF)

* With centre point of H.V. winding grounded.

SAFETY & DESIGN HIGHLIGHTS

Zero Start Interlock
Prevents energizing unless regulator is at zero position.

Overload Protection
Automatic tripping in case of overload or breakdown of oil sample.

Transparent Safety Chamber
Interlocked transparent cover ensures safe operation and prevents accidental contact.

Precision Oil Test Cell
Non-absorbent cell with adjustable brass electrodes & gap gauge as per IS 6792:1992.

IDEAL FOR

Transformer Manufacturing | Power Utilities | Testing Laboratories | Industrial Plants | Electrical Maintenance | Switchgear Industry | Quality Control | Power Distribution

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