

CGPT-OTS-MXXX-A

Analogue Oil Breakdown Voltage Tester

CGPT



Introduction:

Oil suffers from electrical and mechanical stresses while a electrical equipment is in operation. In addition there contaminations caused due to chemical interactions with windings and other solid insulations, catalyzed by high operating temperature. As a result the original chemical properties of Oil changes gradually, rendering it ineffective for its intended purpose after many years. Hence this oil has to be periodically tested to ascertain its basic electrical properties, and make sure it is suitable for further use, or necessary filtration has to be done. The most common and easiest test of these is finding out the breakdown or flashover potential of the Oil under test.

CGPT make Oil Test Set is a single unit compact equipment to measure the di-electric strength of insulating oils of transformers and circuit breakers. The most important function of insulating oil is to provide electrical Insulation under high electrical potential. The dielectric strength of insulating oil is a measure of the oil's ability to withstand electrical stress without failure. Any significant reduction in the dielectric strength will indicate that the oil is no longer able to perform this vital function, leading to failure of equipment.

CGPT-OTS (Oil Test Set) is available in a variety of maximum test voltages, denoted by their suffixes.

Suffix M060 means – 0-60 kV AC

Suffix M080 means – 0-80 kV AC

Suffix M100 means – 0-100 kV AC

CGPT-OTS is a precise instrument, which is applied to accurately measure the dielectric breakdown voltage of the Oil under test. It consists of the high AC voltage generating unit, and the Oil vessel (as per applicable standard). “A” denotes the display is of Analogue type.

Application

- This Oil Test Set is essential for transformer & switchgear manufacturers, Oil filtering units, electrical repairs & maintenance shops and power substations.

Features :

- Motorized cum Manual operation.
- Accurate and fast trip on breakdown
- Precise HV trip Voltage measurement, Voltage hold after trip
- Non-contact magnetic stirring (optional)
- Powder coated steel cabinet with heavy duty handles.
- A Linear scaled A.C. rectifier Voltmeter marked kV to measure output voltage.
- Open Ground interlock, Reset interlock for equipment protection
- HV chamber interlock, Zero Start interlock, Overload & Short-Circuit interlock for operator protection
- Oil Test Set is suitable for conducting oil breakdown test as outlined in IS 6792:1992.

Technical Specifications

Input/output

- I/P Power Supply : 220 Volts \pm 10%, 50HZ AC, single phase.
- Voltage output : CGPT-OTS-M100-A (0-100kV AC)
CGPT-OTS-M080-A (0-80kV AC)
CGPT-OTS-M060-A (0-60kV AC)
- Display : Analogue display (A Linear Scaled A.C. rectifier voltmeter marked kV to measure output voltage.)
- Output Voltage accuracy : 3% of readout
- Output Voltage resolution : 1 kV (1000V)
- Voltage ramp rate : approx 2kV/sec as per IS 6792
- Trip Current : 20mA max
- Mode of operation : Motorized cum Manual operation

Atmospheric

- Operating Temp : 0 deg C to +50 deg C
- Humidity : < 90% RH at 40 °C

Physical

- Size : 540mm (W) \times 520mm (D) \times 435mm (H)
- Gross Weight : 60kgs (incl accessories) Approx



Standard Accessories

- Test equipment – 1 no
- Oil vessel with Mushroom Electrodes – 1 set
- 2.5mm go-no go gauge – 1 no
- Connecting AC mains cable – 1 no
- User manual – 1 no
- Test certificate – 1 no
- Stirrer (Optional)
- Warranty Certificate – 1no (Standard warranty 1yr against manufacturing defects)



Oil Vessel

Note

The instrument is accompanied with Test & calibration sheet. 2. Test facility can be provided at the factory with available test setup. 3. To keep pace with the latest technology CG Power Technology reserves the right to update its system. Hence, information in the catalogue is likely to change without notice. 4. Accuracy specified for temperature range of 28°C \pm 3°C & 55% RH \pm 10%

M/S. CHHATTISGARH POWER TECHNOLOGY

Manufacturing & Registered Office:

D-7A, Shri Ram Nagar, Near TV Tower, Raipur-492 001 (C.G.)

Tel. No.: +91 - 771 - 2281600 Mobile: +91 - 9039556781

Visit us : www.cgpowertechnology.com E-mail: sales@cgpowertechnology.com

Represented by