



Sivananda Electronics

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AUTOMATIC OIL INSULATION TEST KIT

Introduction

The oil insulation test kit is intended to be used for testing of dielectric strength of insulating oil used in Transformer , Circuit breaker, CTs, PTs etc. The test kit is fully automatic and has the facility for Auto/Manual selections. The operator simply needs the sample in the test vessel & selects the required test. Testing can be done as per many international (IEC & European standards) which are programmed into the instrument memory . Stand time, stir times & rate of rise of applied voltage can be selected in Custom Mode also , one set of such selected mode can also be stored in the memory. In addition to the above set can also perform withstand test(proof) tests. The colour TFT is used for user friendly operations during the test process. It also display fault condition messages such as open ground and cover open . All the user selected programmes are chosen through (4x3) key pad (screen touch optional).The test results can be printed along with test type, date, time, breakdown test voltage, averages and deviations. For each test the readings are recorded and stored in memory. All stored readings can be transferred via the RS-232/USB/Bluetooth interface to PC.

Special Features

- Fully Automatic micro controller operation.
- International standard preprogrammed.
- PC Software for downloading reports.
- USB interface.
- Suitable for mineral, ester and silicon oils
- Trip detection circuit with direct measurement of voltage
- Blue tooth™ connection.
- Integrated printer.
- Customer specific test sequences programmable(Up to 5 Test).
- Measurement of oil temperature (Optional).
- Oil Drain (Optional).
- 3.2" colour display with screen touch (Optional).

Technical Specification

Power Supply: 250V AC+/-10%, 50Hz +/- 5 %, Single phase.

Voltage Range: 0 to 100 KV AC

Trip Current : 10mA (Custom Specs can be provided)

Indication : Color 3.2" TFT display.

Resolution : 0.1KV in manual mode and 0.4KV in Auto mode

Accuracy : ± 1% reading of ± 1 kV.

HV Transformer : 50-0-50 KV with mid point earth , Double wound, air cooled, epoxy molded.

Variac : Motorized.

Shut down Sensitivity:5mA

Shut Down Time : < 20 milliseconds

Oil Test Cell : Transparent oil resistant plastic. Volume 350 to 500ml.marking at 400ml.

Gap Gauge : 1mm /2mm / 2.5mm and 4mm.

Cabinet : Powder coated sheet metal table top cabinet with lifting handles.

Controls Mains ON/OFF, HT ON/OFF, Stirrer ON/OFF, Auto/Manual Mode, reset switch.

Features : Microprocessor control with following features Fully automatic Option to set a)Stand time. b) Stir time. c) Rate of rise of voltage 0.5 KV to 5KV adjustable d) No. of test carried out as per selected standard.

Additional Feature : Manual Operation,Auto Operation.

Printer :Built-in-thermal printer. Time & Dated result with standard deviation printed

Port : RS-232/USB/Bluetooth port interface to download data to PC.

Software :Windows based Data Acquisition software.

Keypad :Quick test selection through 12Keys soft touch Keypad (Screen Touch Optional) .

Indications :Cover Open,Ground Open, Wait time, HT On, KV rise, Stir time, Stand(Settle)Time, Temp. & BDV.

Beeps: Audible beep on Breakdown & Long beep on completion of test.

Standards :IEC 156, IS6792, ASTM D1816, ASTM D877, UNE 21,Withstand,Proof, Custom Modes.

Storage Memory : 100 Test Results.

Safety Features:

Interlock on high voltage test chamber. Zero start protection. Double ground protection.All safety interlock to avoid shocks with indications. Protected against overloads & short circuits.

Safety Standards : Meeting IEC 61010.

EMI/EMC Standards : IEC/EN 61326

Accessories: Mains Chord, Oil test vessels with adjustable electrodes.. GO NO GO Gauge for adjusting gap , Stirrer.Pairs of mushroom, Spherical & cylindrical electrodes and Transport case. Users/instruction manual.

Temperature Range : Operating 0 – 50 °C

Humidity Range : 80% Rh at 40 °C

Storage –5 to 70 °C

Dimensions L=700 x B=320 x H=325 mm ± 10m m

Weight =40 Kg. Approx.

Warranty

Sivananda Electronics warrants its products against defects in material and workmanship for a period of one year from the date of installation or 15 months from the date of dispatch, whichever is earlier. This warranty excludes normal wear on finishes or damage that occurs due to abuse or misuse.

Our Other Products

- ❖ **Instruments:** 200+ types of test equipment's for Power, Wire & Cable, Capacitor, Oil & Petroleum industries are developed by in-house R&D Lab. Surge Testers, Automatic C&Tan Delta Bridges, Transformer Windings Resistance Meters, Oil Insulation Test Kits, Oil Tan Delta, Volume Resistivity & Dielectric constant Meter, Insulation Resistance Tester, Contact Resistance Meter etc.
- ❖ **Security:** Turnstiles, Tripods, Barriers, Metal Detectors, Bollards etc.

Disclaimer : To Keep pace with the technology Sivananda Electronics reserves it's right to update the system without prior consent.

About Us

- 50 years (in 2020) of service to India.
- 1st to develop metal detectors for security in India. Made in India.
- 1st to develop Turnstiles in India. Made in India.
- Eclina Awards (1995), Elecrama Awards (1996), NIMA Awards (1999)
- Leading manufacturers of Security Systems and Test & Measuring Instruments in India.
- Largest supplier of Turnstiles in India in the last 25 years
- 150 different types of Electronic Test & Measuring instruments are indigenously developed for many industries.
- Exporting to 70+ countries.