

SIVA INSTRUMENTS



ISO 9001 : 2008

Automatic Oil Insulation Test Kit Model: OTS-PR-CG (100kV)

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. In this test the set allows the set voltage to pre-set value & hold for one minute to see if breakdown occurs. The backlit LCD 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. The test results can be printed along with with test type, date, time, breakdown test voltage, averages and deviations. Voltage value can be measured & printed with a resolution of 0.1kV. In reprint option it is possible to have number of printouts for the last test. For each test the readings are recorded and stored in memory. All stored readings can be transferred via the RS-232 interface to PC. A safety interlock prevents access to the high voltage terminals during testing. The design ensures a high level of safety for the operator. The high voltage chamber is covered by a polycarbonate door.



- Fully Automatic Microcontroller Operation.
- International Standard, Preprogrammed

Custom Tests

- IEC156, ASTM D877
- ASTM D1816, UNE21, IS: 6792
- BS 5730a
- CUSTOM MODE
- WITHSTAND A
- WITHSTAND B / BS 5730
- 5 MINUTE TEST
- USER-PROGRAMMABLE WITH STAND (PROOF) TEST
- LCD DISPLAY
- BUILT IN PRINTER FOR TEST RESULTS



Specifications

Power Supply	: 230V AC +/-10%, 50Hz , Single phase.
Voltage Range	: 0 to 100kV AC
Trip Current	: less than 10mA
Indication	: 3 ½ Digit Panel Meter
Resolution	: 0.1kV
Accuracy	: ± 1kV
HV Transformer	: 50kV-0-50kV with mid point earth , Double wound, air cooled, epoxy molded.
Variac	: Motorized.
Shut Down Time	: Less than 1ms
Oil Test Cell	: Transparent polycarbonate moulded. Volume 350-500ml.
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, Hold, Stirrer ON/OFF, Timer 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 0.5kV to 5kV adjustable d) No. of test carried out as per selected standard.
Printer	: Built-in-alphanumeric printer. Time & Dated result with standard deviation printed
Port	: RS 232 port interface to download data to PC.
Software	: Windows based Data Acquisition software.
Keypad	: Quick test selection through 12Keys soft touch Keypad .
Display	: Large Backlit LCD Display to display Test Menu, Set up Screens, Test Result.
Indications	: Cover 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, IS 6792, ASTM D816, ASTM D877, UNE 21, BS 5730, BS5730a. BS 5874, Withstand Test, Proof Test, Custom Modes.
Weight	: less than 40kg
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 Guage for adjusting gap , Stirrer. Pairs of Mushroom, Spherical & Cylindrical electrodes and Optional Transportation case. Users/instruction manual.
Temperature Range	: Operating -10°C to 50°C Humidity Range : Less than 95% Storage - 10°C to 70°C

Note: Supplied with Digital 100kv Calibrator with extra cost



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