



# SIVA INSTRUMENTS

## Automatic Oil Insulation Test Kit

Model :OTS-PR-CG (60KV)



- FULLY AUTOMATIC MICROCONTROLLER OPERATION.
- INTERNATIONAL STANDARD, PREPROGRAMMED

### CUSTOM TESTS

- IEC156,ASTMD877'
- ASTMD1816,UNE21
- CUSTOM
- WITHSTAND A
- WITHSTAND B
- 5 MINUTE TEST
- USER-PGRAMMABLE WITH STAND (PROOF)TEST
- BACKLIT LCD DISPLAY
- BUILT IN PRINTER FOR TEST RESULTS

## 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 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 0.1 kV. 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(Optional).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.

## SPECIFICATION

POWER SUPPLY 230V AC +/-10%, 50Hz +/- 3 %.  
230V /110VAC , 60Hz on request  
VOLTAGE Range: 0 to 60 KV AC  
Trip Current : 10mA ( Custom Specs can be provided)  
Indication : 3 ½ Digit Panel Meter  
Resolution : 100V  
Accuracy : +/-3% ± 2 digits  
CONTROLS Auto/Manual Mode  
Separate switches for HT on & OFF  
BDV hold facility with reset switch  
All safety interlock to avoid shocks with indications  
Protected against overloads & short circuits.  
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.  
High resolution to 0.1KV  
Safety interlock on high voltage test chamber.  
Time & Dated result printed or down loaded via RS 232 interface  
Built-in-printer.  
Quick test selection through Keypad .  
Open Ground & interlock indication & protection on front panel.  
ACCESSORIES Oil test vessels with lid. Spherical electrodes fitted to test set.  
Pairs of mushroom & cylindrical electrodes.  
Padded transport case. Users/instruction manual.  
DIMENSIONS L=575x B=300 x H=410 mm ± 10mm X  
Weight =65 Kg. Approx.

## APPLICATION

These test sets are used to determine dielectric strength of insulating oil used in Transformer Switchgear & other electrical apparatus. This test offers a quick guide to the general state of the oil & may show if the oil is contaminated . A low dielectric strength may indicate that the oil is deteriorating & requires replacement.

Note: Specifications are subject to change for up-gradations and betterment.

**SIVANANDA ELECTRONICS** also offers C & Tan delta Bridge with High Voltage Power Supply upto 12KV. , SF6 gas filled Standard Capacitors 100pf/1000 pf upto 20 KV. , Oscillographic Null Detectors, High Voltage Insulation Testers upto 5KV (Solid State), Precision Current Transformers for range extension of C & Tan D Bridge etc. For detailed information & product catalogue please write to us.

## SIVANANDA ELECTRONICS

DEEPAK MAHAL, LAM ROAD, DEVLALI-422 401, NASHIK. MAHARASHTRA, INDIA.

Phone : 0253-2491423, 2491504, 2491816 E-mail : mkb@sivanandaelectronics.com Fax: 0253-2492291

MUMBAI : 208, MIDAS Sahar Plaza Complex, Andheri Kurla Road, Andheri (E) Mumbai 400059.

Ph: 56430590, Fax : 28389232.