



# Sivananda Electronics

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**REPEATED CHARGE DISCHARGE TEST  
SET FOR CAPACITORS  
MODEL: RCDT-1000**

## Introduction

Some twenty years ago we committed ourselves to fill up the void in indigenous production oriented test equipments for our fast growing electronic and electrical industry, which was then dependent on costly imported equipments. Even the simplest of the equipments were being imported with the omnipresent menace of the servicing problem.

True to our commitment over the years dedicated and hard core professionals at Sivananda Electronics have come out with a wide range of test equipments to cater to the needs of the Indian Electronics and Electrical Components Industry. The types of equipments ranges from simple but vital equipments to the most sophisticated equipments using the latest state of art technology.

Prime design criteria are production orientation, speed, accuracy, ease of operation and suitability for diverse climatic conditions and technical level of manpower. An ever-growing list of satisfied customers, shows that we have been successful in fulfilling our commitment.

Our constant endeavor is to update the present equipments and bring out new equipments as per International Standards. A constant feedback from our customers is a source of encouragement in our endeavor.

The IS:13341:1992 has laid down the requirement for Ageing Test, Self-Healing Test and Destruction Test on shunt Capacitors of the Self healing type for AC Power Systems. The Ageing Test is to be performed at a specified voltage of 1.25 times the rated voltage for 750 hours. The test equipment for this is readily available in the market. The test is to be followed with a repeated discharge cycle test which involves charging of the capacitor to a DC voltage and discharge of the same through an inductance. This charge discharge test equipment is not available in the market. Sivananda Electronics has developed this equipment for the benefit of capacitor manufacturers for the first time in India.

### **Salient Features**

- Microprocessor based control.
  - Battery back-up to retain data during power failure.
  - User settable charge and discharge timings.
  - Automatic tripping and alarm indication in case the capacitor fails during the test.
  - Piezo-electric buzzer for alarm.
- No need of operator once started, even if power fails, it will start counting as soon as power resumes in Battery Back up mode.

## Specification

### Power Supply

Range	:	1 KVAR to 25KVAR
Charging Supply	:	In 8 positions with band switch from 400 to 1000VDC (400, 450, 500, 600, 800,830,880,1000)
Indication	:	3 ½“ Taut Band Analogue Meter
Charging current	:	20mA maximum.
Input Supply	:	230VAC, 50Hz
Charging time setting thumbwheel switch.	:	20-99 secs. Maximum by 2 digit
Discharge time setting	:	10-99 secs. maximum by 2 digit thumbwheel with (min. 30 secs.)
Display of count (Charge/Discharge cycle)	:	7 segment LED
Battery Back-up	:	To be provided by customer incase power supply is intermittent 6V.
Dimension	:	
Weight	:	

“ **Specifications subject to change without notice.**

## Warranty

Sivananda Electronics warranties 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.
- 1<sup>st</sup> to develop metal detectors for security in India. Made in India.
- 1<sup>st</sup> 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.