

### Hotline Coil Resistance Meter

Unique product of the world  
Direct Measurement of Coil Resistance  
Knowing the temperature rise of live Motor  
Single and Three Phase option

### IR, PI, LI, Tester

Measurement of Insulation Resistance , PI & Leakage Current  
Current Resolution of 0.1 A

### IR, PI & Tan $\delta$ Tester

Measurement of IR, Polarisation Index & tan $\delta$

**Application:** Small motors & Generators (for windmill)

### Customer:

UL, CSA, BS, DEMKO, SEMKO, EI, VDE, KEMA, KERI, Taiwan Power, EEA, KETI, ETL, JEMIC, CRIEPI, JQA, Panasonic, Toshiba, Corporation, Sanyao Electric, Hitachi, Mistubishi, Sumitron, Furukawa, Fijukara, Showa, Tokyo Electric, Japan Steel, Nippon Oil, Kawasaki Steel, Idemitsu, Yamaha, Fuji, Minolta, Japan Railway ....

### Indian User

BEST Undertakings, UCL, Havells, EPCOS, NICCO Corporation, VATECH- Hydro, Transformers & Rectifiers, Shreem Capacitors, K. Dandapani & Co., Meher, Subodhan, Yesha Electric, Matrix Cap....

## Our Achievements

- ☞ Installation of Multiple Chopping Gap (MAFS) of Haefely make
- ☞ Manufacturing & Supply of 250 mm Spheregap System (as per IEC)
- ☞ Modify the, wrongly chosen WSTPL Measuring unit to suit Hipotronics Resonating System, without affecting the accuracy of measurement.
- ☞ Annual maintenance of 800 kV Impulse Generator and HIAS
- ☞ Repair of Passoni-Villa Impulse Generator & Control System
- ☞ Design & supply of tripping system for 600 kV HV Source.

### USER COLUMN

## SHIVATTI SOLUTIONS

E-mail: sales@tandeltaservice.com  
Phone / Fax: 91-080-23573784, Phone: +91-080-65632270  
# 12, 12th B Main, Muthyalanagar, Bangalore - 560054.  
website: www.tandeltaservice.com



Calibrate your C, Tan $\delta$   
Bridge to precision.  
Use old type bridge for  
alternate application

## GENERAL CATALOG

## SHIVATTI SOLUTIONS

Representing SOKEN ELECTRIC CO., LTD. Tokyo, Japan

## PRODUCTS

### Capacitance & Tan $\delta$ Measuring Bridge

- With any Source and Standard Capacitor
- Max. Test Voltage 480,000 V AC
- Resolutions  $2 \times 10^{-6}$

Application: Power Cable, Ins Material, Trans., Gen etc.



### AC Peak Voltmeter

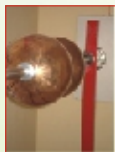
- RMS, Peak Peak/
- Freq Response 1000 Hz
- ETDC Bangalore Tested Traceable to National Standard

Application: Power Frequency Testing of HV Ele. Appliances

### Impulse Peak Voltmeter

- Upto 1000 kV
- LI & SI Impulse
- Traceable to National Standard

Application: Impulse Peak Voltage Test of HV Ele. Appliances



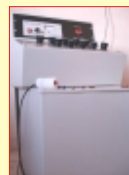
## SERVICES

Repair of Partial Discharge Measuring System & Impulse Generator & Analysing System

### Modernisation of Capacitance & Tan $\delta$ Measuring System

Already have a C, tan $\delta$  System ?

- 1) Repair / Calibrate / Alter to use for other applications
- 2) Refurbish the system & Automise the HV Source.
- 3) Modernise the system with Auto HV Source & Integrate with New Auto Measuring bridge



Looking for new C, tan $\delta$  Measuring Bridge ?

Opt for **SOKEN ELECTRIC Japan** make Automatic bridge



Model DAC-PSC- UA  
Model DAC-ASM-7  
Model DAC-ASC-5

Phone/FAX:080-23573784  
[www.tandeltaservice.com](http://www.tandeltaservice.com)

### Customers:

ABB, AREVA, APGENCO, APARAIL, BHEL, BEST, Bharat Bijlee, CESC, CPRI, Crompton Greaves, EMCO, ERDA, GE India, Havells, MS Ramaiah Inst. of Tech. NPCL, NTPC, OHPC, POWERGRID, RRVPN, Siemens, Tata Power, Telk, Universal Cables.....

# SOKEN

## PRODUCTS

### AUTOMATIC CAPCITANCE & TAN $\delta$ MEASURING SYSTEMS

#### Universal C, tan $\delta$ Measruing Bridge-DAC-PSC-UA

- Highest Tan $\delta$  Resolutions  $1 \times 10^{-6}$
- Highest tan $\delta$  Accuracy  $3 \times 10^{-5}$  (error of accessories included)
- Max Test Voltage 600,000 V and Current of 8 A

Application: Power Cables, Power Capacitor



#### Checking the quality of AC Capacitors - DAC-ASC-5

- Upto 1100 uF at rated voltage rated current
- Max Test voltage of 1200V
- Lowest Measuring time < 1 sec

Application: C, tan $\delta$  of LT Power Capacitor



#### Onsite Capacitance & tan $\delta$ Measuring Bridge DAC-ASM-7

- Measure tan $\delta$  in GST mode directly (No correction formula required-unlike other make)
- Max Test Voltage of 30 kV / 10 uF
- Use with any HV source

Application: Rotating machines, Transformers, Ins. Transformers



#### Accurate Testing of Capacitance & Tan $\delta$ of Standard Capacitors DAC-IM-D6

- Highest Tan $\delta$  Resolutions  $1 \times 10^{-6}$
- Highest tan $\delta$  Accuracy  $1 \times 10^{-5}$

Application: Std. Cap., Insulating Material (Oil & Solid)

#### Low Voltage C, tan $\delta$ Measuring System DAC-MSB-3

- Test at 125/250 VAC
- Portable & easy to handle

Application: Transformers, Rotating Machines



# SOKEN

### INSTRUMENT TRANSFORMER ACCURACY TEST SYSTEM

#### Automatic CT/PT Test set

- Patented Zero Burden Compensation Circuit
- Confirms to international Standard IEC60044-1,2
- Rated Secondary voltage upto 300 V AC



#### Electronic Burden Box

- Replaces conventional Resistive & Inductive Burden
- Optimum Burden adjusted to resolution of 0.001
- 02 lag 1 0.8 lead



#### Electronic Ratio Adaptor

- To set any ratio in Measuring Instrument
- Ratio of 0.5000 - 2.0000

#### Standard Current Transformer & Voltage Transformer

- Current Transformer 10000A
- Voltage Transformer up to 100 kV

#### INSULATION DIAGNOSIS OF HV MACHINE - DAC-6017

- Auto Testing of PD, C, Tan $\delta$  Insulation Resistance
- Windows based software controlled operation
- User defined Testing Sequence



#### Partial Discharge Testing System DAC-PD-3

- PD Measuring System with Q-max and Pulse Count Mode
- Any Coupling capacitor
- Direct Method and Bridge Method Circuit

