



*Transparent Testing &
Simplified Measurement*

Semi Automatic Capacitance & Tan Delta Bridge SBE - CTD M SBE - CTD W





APPLICATION FIELD

- Power Systems.
- Generators.
- Motors.
- High Voltage Laboratories.
- HT Transformers.
- Bushing.
- Power Cables.
- Power Capacitors.

FEATURES

- DIGITAL DISPLAY for Capacitance and Tan Delta.
- NO NEED of Calculation.
- SAVING of Result and INTERACTIVE DOWNLOAD Software.
- High Resolution for Tan Delta measurements $0.00001(10^{-5})$
- Easy to Use.
- Safety Protection incorporated.



TECHNICAL SPECIFICATION

PARAMETER	RANGE	RESOLUTION	ACCURACY
CAPACITANCE	0.01 (1000 pF)	0.01 pF	$\pm 0.3\%$ of the reading ± 1 pF
	0.1 (10 nF)	1 pF	$\pm 0.3\%$ of the reading ± 10 pF
	1 (100 nF)	10 pF	$\pm 0.3\%$ of the reading ± 100 pF
TAN DELTA	0 - 0.1	0.00001	$\pm 1.0\%$ of the reading $\pm 5 \times 10^{-4}$
	0.1 - 1	0.0001	$\pm 1.0\%$ of the reading $\pm 5 \times 10^{-3}$
VOLTAGE	0 - 12 KV AC	0.01 KV	$\pm 1.0\%$ of the reading ± 1 Digit
CURRENT	0 - 100 mA	1 mA	$\pm 2.0\%$ of the reading ± 1 Digit

Test Voltage : 0 - 12 KV AC

Indication : 3½ Digital Panel Meter for Voltage & Current.

Rated Current : 100 mA Continuous.

Input Voltage : 230 V AC $\pm 10\%$, Single Phase , 50 Hz.

Output Frequency : 50 Hz (Line Frequency)

Accuracy Applicable : $C_x \geq 100$ pF

Standard Capacitor : 100 pF, 12 KV Built-In.

Switch for Three different types of measurement :

1. UST : Ungrounded Specimen Test.
2. GST : Grounded Specimen Test.
3. GSTg : Grounded specimen test with gaurd.



SAFETY FEATURES

- ZERO START Control.
- Open Ground indication Lamp with double ground Connection.
- External Interlock.
- HT Cut-Off on Over Load.
- HT On and SUPPLY ON Indication.
- All operating controls at earth potential.
- Necessary Terminals & Socket for connection to Bridge.

SCOPE OF SUPPLY

- Main Units Power Supply and Bri
- Interconnecting Leads.
- Double Shield HV Cable: 10 Meter.
- Single Shield LV Cable : 10 Meter.
- Ground Cable : 5 Meter.
- Safety Switch.

NULL DETECTOR

Built in battery Operated / External Powered electronic Null Detector. This Type of Null Detector is most suitable for balancing of the bridge. It gives high sensitivity and Accuracy and it is very User Friendly. Phase Sensitivity Null Detector can be given in the place of Electronic Null Detector on request.

CALLIBRATION BOX (Optional)

One Known Value capacitor with Three different Tan Delta Values Calibration Box. For quick evaluation for Setup at site.

INTERFERENCE CANCELATION UNIT (Optional)

For situation where the pickup by the Bridge is excessive, a separate multi level interface suppression unit can also be given with separate C & Tan Delta Adjustment.

RESONATING INDUCTOR (Optional)

In case of the Test Current requirement is more, e.g. for Testing Motors, Generators, Cables etc. with Resonating inductor, capacitive current can be compensated by having same amount of Inductive Current to enhance the requirement of high test current.

DATA LOGGER (Optional)

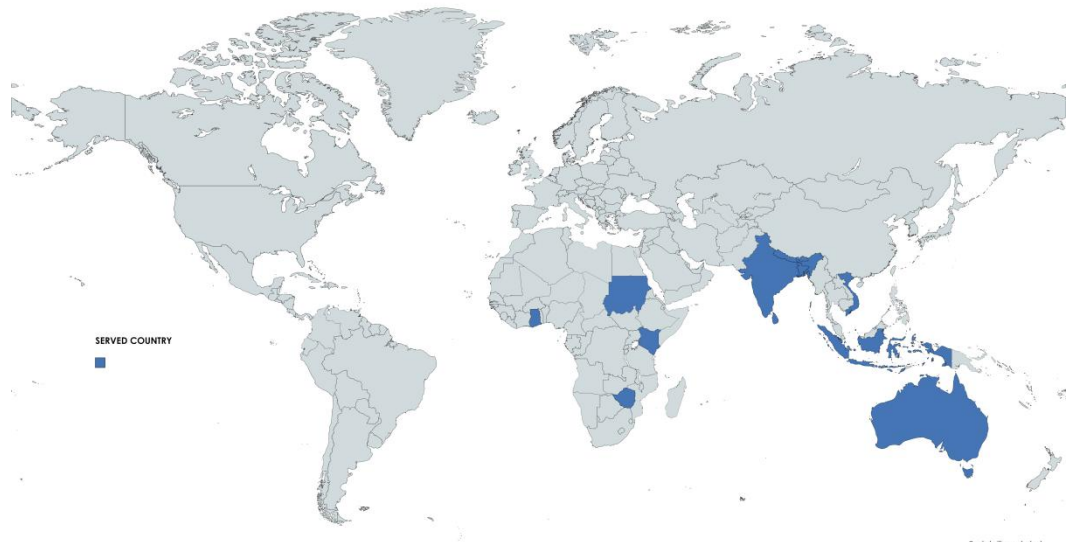
Software CD and Communication Port will be provided to record measured value to keep records, Print The result with statistical data analysis.

ORDERING INFORMATION

A. Interconnecting Leads Set, B. Foot Switch, C. Instruction Manual. D. Application Notes & Testing Guide.
E. Set of Fuse.

OPTIONAL : A. Interference Compensation Unit. B. Calibration Standard, C. Carrying Case.

OUR PRODUCT IS SERVING THROUGHOUT THE GLOBE



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SBE YOUTUBE



SBE LINKEDIN



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