

Low Voltage Capacitance & Tan Delta Bridge

Model : QCTD-L

Application:

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

Features

- Built-in Bridge, Power supply & Standard Capacitors.
- Synchronous, tuned and phase sensitive Null Detector.
- Test Freq. 80Hz, so as to eliminate influence of static/ magnetic field
- Three different measurement modes can be conveniently selected by selector switch.
- Suitable for both ungrounded & grounded objects.
- Robust, portable design for field applications.



Technical Specification

CAPACITANCE		Tan Delta	
		Range	Range Accuracy (FSD)
Range	1pF to 0.1uF in 10 ranges	0 to 1%	± 0.03%
Accuracy	±0.2% of range ±2pF	0 to 10%	± 0.3%
		10 to 20%	± 0.5%
		20 to 30%	± 0.7%

Null Detector : Synchronous, tuned and phase sensitive null detector with center zero scale.

Test Voltage : 500VAC, 80Hz.

Calibration : Calibrator is provided for periodical check on the measurement for Capacitance and Tan Delta.

Operating Temperature : 0 to 50 deg C.

Leads : Two coaxial cable and one ground cable 20 meter long and Power chord

Input Voltage : 230VAC 10%, Single Phase, 50Hz.

Switch for three different types measurement

1. UST, 2. GST, 3. GSTg

Safety Features :

- HT cut off on overload.
- HT ON and Supply ON Indication.
- All operating controls at earth potential.
- Necessary terminals & Sockets for connection to object.

Ordering Information

- a. Interconnecting Leads set - QCTD/L/LS
- b. Instruction Manual - QCTD/ L /M
- c. Application Notes and Testing Guide - QCTD/ L /AN
- d. Set of Fuses - QCTD/L/FS

Optional

- a. Calibration Standard - QCTD/L/CS
- b. Oil Cell for Liquid / Semi Liquid insulations - QCTD/L/OC
- c. Solid Zig for Insulation Sheets - QCTD/L/SZ

Simplified Measurements Solutions