

KPM's Tan Delta Test Set (KPM-TD12)



- KPM's Tan Delta Test Set (KPM-TD12) Automatic 12KV Capacitance & Dissipation Factor Test Set is used to measure dissipation factor (PF) in heavy interference site such as power plants or power substations. It can also be used in laboratory for high accuracy test.
- The set is whole in one designed: including precision digital bridge, power unit, reference capacitor (CN), step-up transformer and other electronic circuits.
- It is also using frequency shift technology, FFT (Fast Fourier Transform algorithm) and digital filtering.

Applications:

KPM's Tan Delta Test Set (KPM-TD12) Automatic 12KV Capacitance & Dissipation Factor Test Set is used to measure the dissipation factor (PF) of insulating materials in heavy interference sites such as power plants or power substations. It can also be used in laboratory for high accuracy capacitance and dissipation measurement.

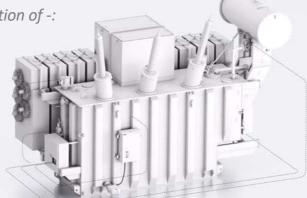
The test set is all in one unit which includes precision digital bridge, power unit, internal reference capacitor (CN), booster transformer and other electronic circuits. When started, it runs automatically and display the results on LCD. Micro printer can be used to print the results automatically.

The typical application of **Tan Delta Test Set** (**KPM-TD12**) is as follow:

- Measure capacitance & dissipation factor for power transformer
- Measure capacitance & dissipation factor for high voltage motors
- Measure capacitance & dissipation factor for current transformer and voltage transformer
- Measure capacitance & dissipation factor for high voltage circuit breakers
- Measure capacitance & dissipation factor for insulation bushes



- Simplicity
- Accuracy
- Ruggedness
- Noise Rejection
- Portability



Accurate Insulation diagnostics with world class safety interlock protection





KPM's Tan Delta Test Set (KPM-TD12)

Technical Specifications:

PF : Error < 0.5 % of reading + 0.02 %
Cap: Error < 0.2 % of reading
Interference current is no more than 2 times of the test current
Internal HV 3pF~60000pF / 10kV , 60pF~1uF/0.5kV External HV 3pF~0.3uF/10kV Resolution 0.0001pF, 4 digital
No limit, Resolution 0.001%, C/L/R specimen test
2 Nos Safety Interlock Protections for 2 No Operators .
10μΑ~1Α
0.5~12kV / 200mA (max)
Rise or fall smoothly
± (reading×1%+10V) Resolving 1V
50Hz single point, locked 45Hz/55Hz double point, locked
40S typical
180V~270V 50Hz/60Hz auto
0°C~60°C
-20°C~60°C
<90%

Test Connections

UST: Un-grounded sample test. This mode is applied to measure the dielectric dissipation factor of un-grounded specimen. The test result of UST mode is more accurate compared to GST mode because the ground condition has no effect in the test result.

GST: Grounded sample test. This mode is applied to measure the dielectric dissipation factor of grounded specimen.

CVT: Capacitive Voltage Transformer test. CVT is applied in capacitive voltage transformer dissipation factor measurement only.

HV: High voltage

MV: Medium high voltage

LV: Low voltage

PF: Dielectric dissipation factor

GSTG: Grounded sample test with guarded connection. This mode is applied to split the capacitors

with grounded specimen

• ENGINEERING SOLUTIONS







KPM's Tan Delta Test Set (KPM-TD12)

Test Connections Diagram

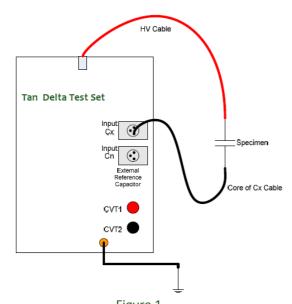
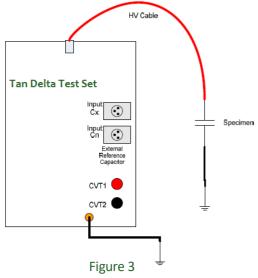
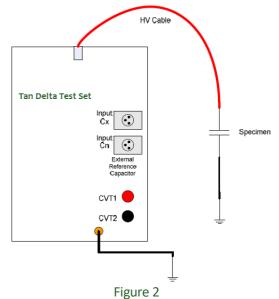


Figure 1
Test connection for UST with internal reference capacitor and internal HV power



Test connection for UST with external reference capacitor and internal HV power



Test connection for GST with internal reference capacitor and internal HV power

Package List

- Test Set
- Printer paper
- HV Test cable
- Power cable
- LV test cable
- User manual
- Ground Cable



KPM Engineering Solutions Pvt. Ltd.
Phone: 91-124-4001088
Email: info@kpmtek.com

Website: http://www.kpmtek.com

815 A, 8th Floor, Unitech Arcadia , Sector 49 ,

Pin – 122018, Gurugram