

Advanced Tan Delta Test Kit | Applied Techno Products

Contact: Applied Techno Products

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Address: **Gurgaon, Haryana, Gurgaon, Gurgaon**

Price: **Check with seller**

Advanced Tan Delta Test Kit | Applied Techno Products: Tan Delta Test Kit is a specialized diagnostic instrument used to assess the condition of electrical insulation in high-voltage and medium-voltage equipment. Commonly applied to power cables, transformers, generators, motors, bushings, and switchgear, the Tan Delta test—also known as the dissipation factor or loss angle test—measures dielectric losses in insulation systems. By evaluating these losses, the test kit helps determine insulation health, detect deterioration, and prevent unexpected electrical failures.

The principle of the Tan Delta test is based on measuring the phase angle between applied AC voltage and the resulting current through the insulation. In an ideal insulation system, the current leads the voltage by 90 degrees. However, due to resistive losses caused by aging, moisture ingress, contamination, or partial discharge activity, the phase angle deviates slightly. This deviation is expressed as the tangent of the loss angle ($\tan \delta$). A higher tan delta value indicates increased dielectric losses and reduced insulation quality.

A modern Tan Delta Test Kit typically consists of a high-voltage AC source, precision measurement circuits, control and display units, and safety interlocks. Advanced digital test kits offer automated test sequences, real-time data acquisition, and high measurement accuracy. Many systems also include features such as variable test voltage, temperature compensation, and built-in data storage for trend analysis. These capabilities enable

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