DELTA1070 - Capacitance & Tan Delta Test Set

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Description

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Dielectric loss measurement is a basic method in insulation test and effectively detect damp, degradation and partial defect of insulation of electrical equipment. This method is widely used in electric manufacturing, electric equipment installation, connection and preventive test. Measurement on dielectric loss of transformer, mutual inductor, reactor, capacitor, bushing and arrester is the most basic method to test their insulation property. fully-automatic anti-interference dielectric loss tester breaks through the traditional bridge testing method and adopts variable frequency power technology, single chip and modernized electrical technology to carry out automatic frequency shift, analog-to-digital conversion and data computing. It features strong anti-interference capacity, high test speed, high precision, automatic digitization and easy operation. It adopts high-power switching power supply, which outputs 45Hz and 55Hz pure sine wave and automatically increase the voltage to a maximum value 10 KV. It can filter 50Hz interference automatically, and it is applicable to the site test of substation and other places with large electromagnetic interference. This methods is extensively applied in dielectric loss measurement of transformer, mutual inductor, reactor, bushing, capacitor, arrester and others equipments in power industry.

Features

- The instrument adopts Fourier transform digital filtering technology to measure capacitance, dielectric loss and other parameters. The precision of the test results is high, which is convenient for automatic measurement.
- The instrument adopts frequency conversion technology to eliminate 50Hz power frequency interference in the field, and reliable data can be measured even in the environment of strong electromagnetic interference.
- Use full-touch super large LCD, easy to operate. Full touch LCD screen, large full graphical operation interface, each process is clear, operators do not need additional professional training to use. The whole process can be measured with a touch.
- Data storage: it is equipped with calendar chip and large-capacity memory, which can save the test results at any time, check the history record at any time, and print out. The current time and storage time can be displayed and printed at any time.
- Scientific and advanced data management: instrument data can be exported through U disk. Data can be viewed and managed by special software on any PC.
- The instrument is easy to operate, and the measurement process is controlled by the microprocessor. As long as the appropriate measurement method is selected, the data measurement can be completed automatically under the control of the microprocessor.
- Integrated model, with standard capacitor and high-voltage power supply, facilitates field testing and reduces field wiring.
- The measurement accuracy of the instrument is high, which can meet the requirements of oil dielectric loss measurement. Therefore, the measurement of oil dielectric loss can be achieved only by equipping standard oil cup and special test line.
- It has reverse wiring low-voltage shielding function. When the 220kV CVT bus is grounded, 10kV reverse wiring dielectric loss measurement can be performed on the C11 without removing the wires.
- Able to do ac withstand test. It is convenient for PT, CT secondary side ac withstand voltage, 400V low-voltage system to do the withstand voltage test.
- It can identify the frequency of external high voltage power supply (40Hz~70Hz), and allow the use of frequency power supply or serial resonant power supply to conduct large-capacity and high-voltage dielectric loss test.
- With CVT test function, CVT self-excitation test can be realized, and 4 protection limits of high voltage/current and low voltage/current can be set to ensure the safety of person and equipment.
- When testing CVT, not only the capacitance and dielectric loss values of C1 and C2 can be automatically tested, but also the total capacitance and dielectric loss values of CVT equipment can be tested.
- Equipped with thermal printer for printing and output, with calendar clock, convenient for

users to produce test report, with U disk output.