

INSULATING OIL DIELECTRIC DISSIPATION FACTOR (TAN δ) AND VOLUME RESISTIVITY TESTER

DESCRIPTION

The dielectric dissipation factor ($\tan \delta$) measures the energy losses as heat when an insulating material is subjected to an alternating electric field, while volumetric resistivity assesses the oil's resistance to the flow of electric current. These parameters are essential for the early detection of contamination, moisture, and aging in insulating oils. The ECO-2000A is designed to determine the dielectric properties of insulating oils used in high-voltage equipment, such as transformers, circuit breakers, and power transmission systems.

TECHNICAL PARAMETERS

| MODEL | ECO-2000A |
|-------------------------------------|-------------------------------------|
| Measurement range ($\tan \delta$) | 1×10^{-5} to 100 |
| Accuracy ($\tan \delta$) | $\pm(2\%$ of reading + 0.0001) |
| Measurement range (resistivity) | 2.5M Ω ·m to 20T Ω ·m |
| Accuracy (resistivity) | $\pm 10\%$ of reading |
| Test voltage | AC: 200 to 2200 V; DC: 200 to 500 V |
| Display | Color LCD touchscreen |
| Dimensions | 420 x 380 x 420 mm |
| Weight | 25 kg |
| Power | ≤ 350 W |
| Power supply | AC 220V $\pm 10\%$, 60Hz |



Ecoshel reserves all the rights to changes in product design, if there are any design change, we will not inform in advance.



STANDARD ACCESSORIES

1. Test cell
2. Temperature probe
3. Signal cable with BNC connectors

KEY FEATURES

1. Color touchscreen with an intuitive user interface and adjustable brightness.
2. Enables measurement of dielectric dissipation factor ($\tan \delta$) and volumetric resistivity in a single test cycle.
3. Three-electrode test cell, designed to minimize the effects of stray capacitance and surface leakage currents.
4. Built-in printer allows hard copies of test results.
5. Empty test cell measurement for verifying cleanliness and proper assembly conditions.



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