# Oil Test System

Model : QOTS-M

**Application:**

- Insulation Oils
- Liquid / Semi Liquid insulations
- Petroleum Jelly

## Parameters

- Tan Delta
- Dielectric Constant
- Volume Resistivity

## TECHNICAL SPECIFICATIONS

- **Tan Delta & Volume Resistivity**
- Test Voltage : 0 to 600 VAC
- Accuracy : ± 1.0% ± 1Volt,
- Resolution: 1Volt.
- Dielectric Constant Range : 1.0 to 20.0
- Dielectric Tan Delta Range : 0.01% to 200%

  Accuracy : ±1% ± 0.05%,
- Resolution: 0.01%

## Resistance & Resistivity

| | | |
|---|---|---|
| Test Voltage DC | : | 500 VDC |
| Resistance Range | : | $10^{7}$-$10^{12}$ Ohm |
| Resistance Accuracy | : | ±3% of reading upto 1GOhm & ±10% at high end. |
| Resistivity Range | : | max 62000 x $10^{12}$ ohm-cms. |

## Three Terminal Oil Cell

| | | |
|---|---|---|
| Construction | : | 3 Terminal Configuration |
| Cell Capacitance | : | 55pF ±1pF |
| Material | : | Stainless steel with Teflon spacers |
| Electrode Spacing | : | 2mm |
| Volume | : | 45ml |

## Oil Cell Heater

| | | |
|---|---|---|
| Power Supply | : | 230VAC±10%, 50Hz. |
| Test Temperature | : | Room Temp. to 110℃ |
| Accuracy | : | ±1 Deg C |
| Over shoot | : | ±2°C. |

## Standard Calibrator (Optional)

Capacitance 1 value, Tan Delta 2 value & Resistivity 2 value standard calibrator with traceable calibration certificate operating voltage 500VAC/DC.

## General Specks

| | | |
|---|---|---|
| Power Supply | : | 230VAC±10%, 50Hz |
| Operating Temp | : | -10 to 50℃ |
| Humidity | : | Ambient to 90% RH |