

# 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 :  $\pm 1.0\% \pm 1\text{Volt}$ ,
- Resolution: 1Volt.
- Dielectric Constant Range : 1.0 to 20.0
- Dielectric Tan Delta Range : 0.01% to 200%
- Accuracy :  $\pm 1\% \pm 0.05\%$ ,
- Resolution: 0.01%



### Resistance & Resistivity

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

### Three Terminal Oil Cell

Construction : 3 Terminal Configuration  
Cell Capacitance : 55pF  $\pm 1\text{pF}$   
Material : Stainless steel with Teflon spacers  
Electrode Spacing : 2mm  
Volume : 45ml

### Oil Cell Heater

Power Supply : 230VAC  $\pm 10\%$ , 50Hz.  
Test Temperature : Room Temp. to 110°C  
Accuracy :  $\pm 1$  Deg C  
Over shoot :  $\pm 2^\circ\text{C}$ .

### 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  $\pm 10\%$ , 50Hz  
Operating Temp : -10 to 50°C  
Humidity : Ambient to 90% RH

Simplified Measurements Solutions