

**Series FOT Fully Automatic Insulation  
Oil Dielectric Strength Tester  
for 0 ~ 80kV/ 100 KV**



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## I Introduction

Series FOT fully automatic oil tester is applied to test the insulating oil's dielectric strength (break-down voltage value), which is designed as per the requirement of IEC60156 Testing Method of Insulation Oil Medium Strength, which via proper programming, has got functions of auto boosting, step down, stirring, display and print out. After breakdown of oil medium, HV break off will operate within 10 seconds to enable an auto isolation of control system partly; this effectively safeguards the personnel security and equipment safety.

Series FOT automatic oil tester adopt industrial SCM to control, which is applied to integrate circuit, new model I/O connection, particular testing and anti-jamming technology which largely improve the machine's capacity .

### Main features:

1. Simple operation, automatically (can be finished just press one key)
2. Menu controlled. Input data can cleared
3. Can store 99 groups' oil testing data which is convenient to reading and print. The testing data can keep 100 years under the condition of power off.
4. System time can go on running under power off;  
(The system time just for reference can not be the standard of timing)
5. Can upgrade software through RS232
6. High capacity of anti-jamming and high precision of testing.
7. Small volume, light, to be operated in the open air very conveniently.
8. The set shall be provided with smooth and continuous of output voltage between zero and maximum having no distortion of waveform.
9. Audio sound and visual signal will indicate at the instant of sample failure.

## II Technology and parameter data

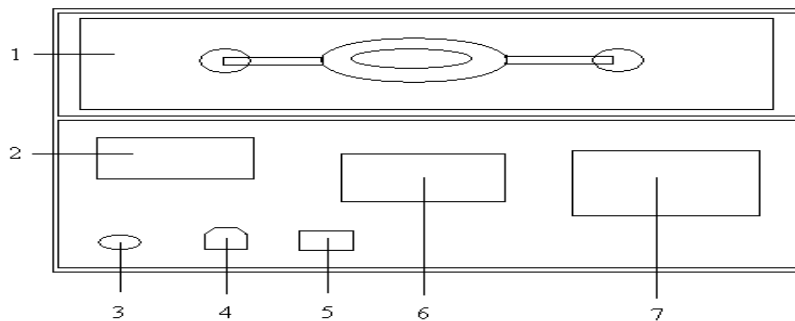
1. Power Supply: 220  $\pm$ 10% VAC, 50HZ

Model	FOT-80	FOT-100
<b>Test Range (Output Voltage)</b>	0 ~ 80 kV	0 ~ 100 kV
<b>Capacity</b>	1.6 kVA	2.0 kVA

2. Pressure increase rate: About 2 KVA/S
3. Pressure testing speed: 3%
4. Break down sensitivity : <2KV
5. Wave form distortion:  $\leq$ 3%
6. Time of break down:  $\leq$ 10ms
7. Working environment: temperature: 0 to 99°C, humidity:  $\leq$  85% (Relative Humidity)
8. Storage environment: temperature: -30 to 65 °C, humidity:  $\leq$  75% (Relative Humidity)
9. Working Altitude: < 1500 meters. (If over 1500m, it can be customized)

10. Test cell: Glass, volume 300 to 500 ml, with protective cover and stirrer.
11. Electrodes: diameter/hemispherical 2.5 mm gap as per IEC-156.
12. Initial stand time of oil sample: 180 seconds  
Intermediate stand time of oil sample: 60 seconds  
String time of oil sample: 60 seconds  
Number of consecutive test: 6
13. Dimension & Weight:  
Before packed: 380 × 370 × 380 mm  
Net Weight: 40 KGS  
After packed: 500 × 500 × 520 mm  
Gross Weight: 50 KGS

### III Control panel and introduction



- 1-high voltage cabinet    2-printer    3- earth terminal  
4-power socket    5-power switch    6-display  
7- Keyboard operating zone