

# AUTOMATIC OIL INSULATION TEST SET

Model : QOITS-100A

**QOITS-100A / 80A / 60A**

## FEATURES:

- Auto operation mode
- Fully automatic operation
- Fully compatible with IEC 60156 : 1995
- Pre-loaded testing programs for 16 standards
- 3 Custom Program Settings
- Built-in printer
- PC connectivity
- 100 Internal test data storage
- Precise voltage measurement
- True sine high-voltage on electrodes
- Indicator HT ON/OFF, All safety Interlock
- incorporated, Zero Start, HT Chamber interlock



QOITS-A is tested for testing dielectric liquids with their breakdown voltage measuring. it work micro controller based Automatic operation, according with selected standard, which are pre-loaded.

## TECHNICAL SPECIFICATIONS

Output Voltage : 0-100KV AC  
Accuracy :  $\pm 1$ KV  
Resolution : 0.1KV  
Display : 20 x 4 backlit LCD  
Tripping Time : less than 100 micro-seconds  
Power Supply : 230VAC, 50Hz, Single Phase  
Temperature Range : -10 to 60 Deg C (Storage)  
-10 to 50 Deg C (Operation)  
Humidity : Ambient to 90% RH  
Controls : HT ON, HT OFF, Increase, Decrease,  
Oil Cell : Transparent polycarbonate molded  
Printer : Thermal Printer  
Memory : 100 results

## SCOPE OF SUPPLY

- Oil BDV
- Oil Test Cell with electrodes
- Go-No-Go gauge
- Mains cord
- User / Instruction manual
- Lifting Stick
- Printer Paper Roll

## TEST VESSEL

- Made of Methyl Methacrylate (Acrylic)
- Volume 400ml approx
- Mushroom electrodes as per IEC 60156 : 1995



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## Information : Programmed test sequence Details

Standards Complied with and Programmed	Electrode gap options (mm)				Electrode shape options			Voltage Rise Rate			Breakdown test sequence		
	1.0	2.0	2.5	2.54	●●●●●●	●●●●●●	●●●●●●	0.5	2	3	Number of Test	Initial stand time	Time Between Test
IEC 60156 - 95			○		○	○			○		6	5 mins	2 mins
BS EN 60156 - 96			○		○	○			○		6	5 mins	2 mins
CEI EN 60156 - 95			○		○	○			○		6	5 mins	2 mins
IRAM 2341			○		○	○			○		6	5 mins	2 mins
UNI EN 60156			○		○	○			○		6	5 mins	2 mins
NF EN 60156			○		○	○			○		6	5 mins	2 mins
SABS EN 60156			○		○	○			○		6	5 mins	2 mins
VDE 0370 part 5			○		○	○			○		6	5 mins	2 mins
AS1767.2.1			○		○	○			○		6	5 mins	2 mins
JIS C 2101-99 (M)			○		○		○			○	5 x 2	2 mins	1 mins
JIS C 2101-99 (S)			○		○		○			○	1 x 5	2 mins (x 5)	NA
ASTM D 1816-04	○	○			○			○			5	3 mins	1 min 15s
ASTM D 877A-02			○				○			○	5	2 mins	1 mins
ASTM D 877B-02			○				○			○	1 x 5	2 mins x 5	N/A
Custom Test (x3) (user Programmable)					○	○	○	0.5kV/s to 5kV/s			up to 9	10s to 600s	10s to 600s

## Applications

Quadrant testers are used for testing dielectric liquids with their breakdown voltage measuring.

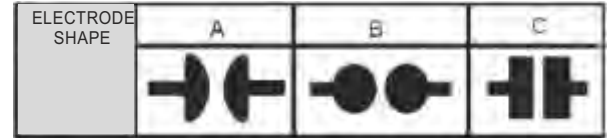
A-series of Oil BDV testers works automatically, according with selected standard, which are preloaded.

## Test Electrodes

A : Mushroom Electrode

B : Spherical Electrode

C : Flat Electrode



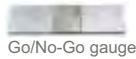
## Accessories



USB cable



Stirrer



Go/No-Go gauge



Built-in Thermal Printer



Power cord



Lifting stick



Test Vessel



Ground Cable

## Accessories

Accessories	
Spherical electrodes as per IEC60156	1 Pair
Magnetic Stirrer	1 Nos.
Magnetic lifting stick	1 No
Power Supply cord 1 mtr min	1 No
USB connection cable 1 mtr min	1 No
User manual	1 Nos.
Spare Fuses	1 No.s
Spare printer rolls	1 Nos.

Testers are fully equipped and are ready for operation right after unpacking. They come with a test vessel (IEC 60156 – basic configuration) with VDE 0370 mushroom-shape electrodes. A gap between electrodes is easily regulated with a use of pass-no pass gauge, which comes in pack. A-series provides with fully automatic test procedure according to selected standard (basically IEC 60156 settings are pre-loaded). It has a built-in thermal printer which is able to print a test report after procedure is done. Test results are saved into non-volatile memory of tester. A PC-connectivity makes it easy to collect data from QOITS-100A tester, save, store and view them as well as print a fulfilled report. Test vessel for this series goes with magnetic stirrer, which stirs a liquid between two measurements.



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