

OLT Liquid Dielectric Testers

A-Series



**OLT-80A
OLT-90A
OLT-100A**

FEATURES:

- Compact and lightweight
- Fully automatic operation
- Fully compatible with IEC 60156
- Preloaded testing programs for different standards
- Built-in printer
- PC connectivity
- Internal test data storage
- Precise direct voltage measurement
- True sine high voltage on electrodes
- Oil temperature measurement

M-Series



**OLT-80M
OLT-90M
OLT-100M**

FEATURES:

- Compact and lightweight
- Precise voltage measurement
- Simple for operator

> INSULATING LIQUIDS TESTING > Liquid dielectric testers



high voltage
testing equipment





A-Series: OLT-80A, OLT-90A, OLT-100A



M-Series: OLT-80M, OLT-90M, OLT-100M

► Application

OLT testers are used for testing dielectric liquids with their breakdown voltage measuring. A-series of OLT testers works automatically, according with selected standard, which are preloaded.

► Description

Both A and M series of OLT testers bring out accurate and repeatable results of measured breakdown voltage. Fast high-voltage switch off time makes it possible to carry out test of dielectric liquids, which are easily destroyed under such influences.

The internal design of OLT testers combined with a use of automatic high voltage breakers, cutting off supplied voltage if tester's lid has been opened during the test, provide operator with high level of safety.

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 and GOST 6581 settings are preloaded). It has a built-in printer which is able to print a test report after procedure is done. Test results are saved into non-volatile memory of OLT tester. A PC-connectivity makes it easy to collect data from OLT tester, save and store them as well as print a fulfilled report. Test voltage is being measured directly on electrodes. This fact combined with a true sine voltage shape (independent from supply voltage shape), increases repeatability and accuracy of measurements.

M-series provides operator with ultra-simplicity of operation. It doesn't require any presets. All you need is press a start button after a test vessel is loaded. Tester will show a breakdown voltage result immediately after breakdown occurs.

Test vessel for this series goes with magnetic stirrer, which stirs a liquid between two measurements.

► Safety and EMC compliance

Designed in accordance with IEC 61010 safety requirements.

Meets light industrial IEC 61326-1 Class B, CISPR 16-1, CISPR 16-2 and CISPR 22.

Technical specifications

Parameter	A-Series	M-Series
Max. measured breakdown voltage OLT-80/OLT-90/OLT-100, kV rms	80/90/100	
Voltage resolution, kV	0.1	
Measurement uncertainty	3 % of reading	3 % of FS
Voltage rise rate, kV/s	2 ± 0.2 – basic (changes according to selected standard)	2 ± 0.2
Temperature measuring range, °C	5 – 50	N/A
Programmed test sequences	IEC 60156 (BS EN 60156, CEI EN 60156, NF EN 60156, UNE EN 60156, SABS EN 60156, PA SEV EN 60156) GOST 6581	N/A
Test vessel	IEC 60156, 400 ml, 1.0 kg	
Interface languages	English, Russian, Turkish	N/A
Input voltage, V	230 ± 10% (basic), 110/120 – on request	230 ± 10%
Line frequency, Hz	50 ± 1 (basic) 60 – on request	50 ± 1
Power consumption OLT-80/OLT-90/OLT-100, VA	100/120/140	
OLT-80 dimensions (W × H × D), mm	271 × 278 × 461	271 × 278 × 471
OLT-90 dimensions (W × H × D), mm	300 × 320 × 420	300 × 320 × 500
OLT-100 dimensions (W × H × D), mm	315 × 320 × 530	315 × 320 × 540
Net weight OLT-80/OLT-90/OLT-100, kg	21/25/30	23/27/32

KEP reserves right to make changes into specifications

Contents



Test vessel



A-Series built-in printer

Component	Quantity
OLT tester	1
Test vessel* with electrodes (gap is regulated) and magnetic stirrer (A-series only)	1
Pass – no-pass gauge	1
Power cord	1
Software (A-series, optional)	1
User's manual	1
ISO/IEC 17025 calibration certificate (optional, on Customer's request)	1
C-80 calibration kit (optional)	1

* - Additional test vessels are available on request

high voltage
testing equipment



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UPA-20



RIF-9



HVTs-70/50 (Control Unit & HV Unit)



HVTs-HP
(HVU)