

OLT Oil Testers

OLT-80 / OLT-100



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



4K040
ДСТУ ISO/IEC 17025



Intertek



014

> INSULATING LIQUIDS TESTING > Oil testers

high voltage
testing equipment



► Application

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

► Description

The OLT-series 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.

The OLT-series testers provide 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.

OLT tester provides operator with ultra-simplicity of operation. It doesn't require any presets. All you need is pressing 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	Series
Output AC voltage (symmetrical), OLT-80 / OLT-100, kV rms	80 / 100
Voltage resolution, kV	0.1
Measurement uncertainty, %	3 of reading
Output voltage rise rate, kV/s	2 ± 0.2 – basic (changes according to selected standard)
Switch-off time on breakdown, μs	< 5
Temperature measuring range, °C	5.0 – 50.0
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
Electrodes	“mushroom” type IEC 60156 (other standards optional)
Test vessel	IEC 60156, 400 ml, 1.0 kg
Go/No-Go gauge width, mm	2.45 / 2.55 – basic; 1, 2, 2.5, 4 (optional)
Display resolution	128 × 64 dot matrix, monochrome
Interface languages	English, Russian
Printer	thermal line, 8 dots/mm, 384 dots/line
Memory for results, cells	512
PC connectivity	USB B-type
Input voltage, V	230 ± 10% (basic), 110/120 – on request
Line frequency, Hz	50/ 60 ± 1
Power consump. OLT-80 / OLT-100, VA, max	100/140
OLT-80 dimensions (W × H × D), mm	461 × 280 × 271
OLT-100 dimensions (W × H × D), mm	530 × 315 × 320
Net weight OLT-80 / OLT-100, kg	21 / 30

KEP reserves right to make changes into specifications



OLT-80 in comparison with OLT-100

Operating Conditions

Parameter	Storage and transportation	Operating
Ambient temperature, °C	5 – 40	10 – 35
Relative humidity at 25 °C, %, max (non-condensing)	80	
Atmospheric pressure, mm Hg	630 – 800	

▶ Contents

Component	Quantity
OLT oil tester	1
Test vessel* IEC 60156 with electrodes and cover	1
Go/No-Go gauge	1
Magnetic stirrer	1
Lifting stick for magnetic stirrer	1
USB cable (A-B type)	1
Power cord (C-type plug.)	1
Grounding cable	1
Software on USB flash-drive	1
Fuses (250V/3A)	2
Paper roll (inside the printer)	1
User's manual	1
ISO/IEC 17025 calibration certificate (optional, on Customer's request)	1
C-80 (C-100) calibration kit (optional)	1

* - Additional test vessels are available on request



Test vessel



Stirrer



Built-in printer



Grounding cable



USB cable



Power cord



Go/No-Go gauge



Lifting stick

