

# OLT-80 / OLT-100

## OIL DIELECTRIC TESTERS



- 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



## Application

The oil testers OLT-80 and OLT-100 provide highly accurate breakdown voltage measurement. Fast high-voltage switch off time makes it possible to test dielectric liquids that are easily destroyed under such influences.

The design of OLT testers combined with the use of automatic high voltage breakers, cutting off the voltage supply if the tester lid has been opened during the test, ensure a high level of safety to the operator.

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. The gap between electrodes is easily regulated with a pass-no pass gauge, which comes in pack.

The oil testers ensure a fully automatic test procedure according to the selected standard and have a built-in printer to print a test report after testing. Test results are saved into the non-volatile memory of the tester. PC-connectivity makes it easy to collect data from the tester, save and store them as well as print a test report. Test voltage is measured directly on electrodes. This fact combined with true sine voltage shape (independent of supply voltage shape), increases repeatability and accuracy of measurements.

The test vessel goes with a magnetic stirrer, which stirs the liquid being tested between consecutive 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





Oil dielectric tester	OLT-80	OLT-100
Output AC voltage, kV	symmetrical 0 ... 80	symmetrical 0 ... 100
Accuracy, kV	± 1	
Resolution, kV	0.1	
Power supply frequency, Hz	50 / 60 ± 1	
Output voltage rise rate, kV/sec	0.5 ... 10.0	
Switch-off time at flash over, µs	< 5	
Oil temperature measurement range, °C	– 10 ... + 99	
Standards	IEC 60156 ГОСТ 6581 ASTM D877 ASTM D1816 IP 295 other standards – on request	
Electrodes	«mushroom» IEC 60156 («sphere» IEC 60156; «plane» ASTM D877, ASTM D1816 – on request)	
Display	monochrome, 128x64	
Interface language	Russian, English	
Nonvolatile memory capacity, test reports	512	
PC connectivity	USB type-B	
Printer	thermal printer, 57 mm standard paper	
Power supply voltage, V	190 ... 245 (47 Hz ... 63 Hz)	
Power consumption, kV·A, max	< 100	
Weight, kg, max	21	30
Dimensions, W x H x D, mm, max	461 x 280 x 271	530 x 315 x 320
Ambient operation temperature, °C	– 10 ... + 40	
Ambient storage temperature, °C	– 20 ... + 50	
Relative air humidity	Non condensing	
Atmospheric pressure, mm Hg	630 to 800	

KEP reserves the right to make changes to the specifications without notice

## Package contents

OLT oil tester	OLT-80 / OLT-100
Test vessel, 400 ml (by choice)	1
Go/No-Go gauge	1
Magnetic stirrer	1
Lifting stick for magnetic stirrer	1
Power cord (C-type plug.)	1
Grounding cable	1
USB cable (A-B type)	1
Software on USB flash-drive	1
Fuses (250V/3A)	2
Cover	1
User's manual	1

## Option

Test vessel	
	«sphere» IEC 60156
	«mushroom» IEC 60156
	«plane» ASTM D877
	«mushroom» ASTM D1816
Go/No-Go gauge, mm	1 / 2 / 2,5
Oil tester calibrator	C-80 / C-100
Paper roll	
Transportation case	
ISO/IEC 17025 calibration certificate	
Additional items are available on request.	



Oil tester calibrator  
C-100



Oil tester calibrator  
C-80