

# OLT series

## AUTOMATIC INSULATING OIL DIELECTRIC STRENGTH TESTERS



- **Test voltage up to 100 kV**
- **Automatic test cycle**
- **Support of wide selection of standards (IEC 60156, GOST 6581-75, etc.)**
- **Highly accurate results**
- **Integrated printer, stirrer, and temperature sensor**
- **Test report storage and exporting to PC**
- **Portability and low weight**

Portable OLT-series testers are designed for determining the dielectric strength of insulating oils (mineral and synthetic) with AC voltage of industrial frequency. The series includes OLT-80 and OLT-100 which respectively output up to 80 kV and 100 kV in fully automated cycles of determining the breakdown voltage of insulating oil.

OLT-series devices allow to test silicone, polyester, and other insulating oils, which are easily destructible by an electric arc arising during a breakdown, due to the fast (less than 5  $\mu$ s) test voltage switch off. This allows to use OLT instruments for testing according to a wide range of standards.

OLT-series units generate a symmetrical sinusoidal test voltage, independent of the parameters of the power supply, and the voltage is measured directly on the high-voltage electrodes. All this guarantees high accuracy and reliability of the results.

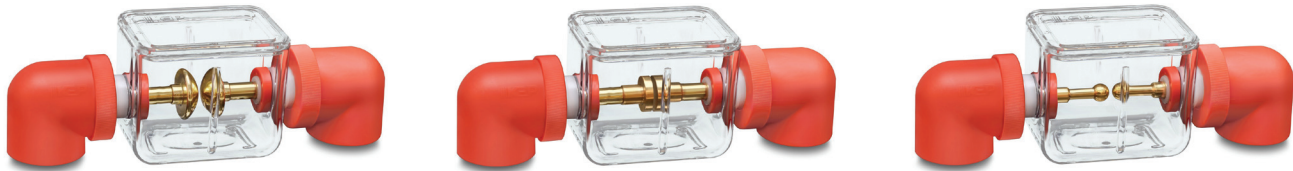
Additionally, OLT-series units feature built-in oil sample temperature sensor, magnetic stirrer, thermal printer for printing test reports, and the ability to store up to 10 test sequences, both standard and user-defined.




Test results are stored in the internal non-volatile memory of the devices. PC-connectivity and a proprietary KEP Suite software make it possible to export test results for storage, processing, and printing in the form of a complete test report.

The units are designed in accordance with IEC 61010. Double protection with an automatic power cut-off when the test compartment lid is opened provides a high degree of operator safety, while the compact dimensions and low weight simplify the delivery of the OLT-series instruments to the test objects.

			OLT-80	OLT-100
Test parameters	Output voltage	Breakdown voltage determining and indication range	20 ... 80 kV <sub>RMS</sub>	20 ... 100 kV <sub>RMS</sub>
		Relative breakdown voltage determining error	± 3 %	
		Indication resolution	0.1 kV	
		Frequency	50 / 60 Hz	
		Voltage ramp-up setting range	0.5 ... 10 kV/s	
		Switch off time at breakdown	< 5 µs	
	Oil sample temperature	Temperature determining and indication range	minus 55 ... + 125 °C	
		Indication resolution	1 °C	
System parameters	Test mode		Automatic	
	Internal memory		<ul style="list-style-type: none"> <li>up to 10 testing standards</li> <li>up to 128 test results</li> </ul>	
	Supported testing standards		<ul style="list-style-type: none"> <li>IEC 60156-95</li> <li>GOST 6581</li> <li>ASTM D1816</li> <li>ASTM D877</li> <li>IP 295</li> <li>IRAM 2341</li> <li>Single test</li> <li>Other (user-defined)</li> </ul>	
Interface	Display		Monochrome	
	Interface languages		<ul style="list-style-type: none"> <li>Russian</li> <li>English</li> <li>Italian</li> <li>Portuguese</li> <li>Spanish</li> <li>Other (option)</li> </ul>	
	PC connectivity		USB-B	
	Printer		Built-in thermal printer, (paper roll width 57 mm)	
Safety	Protection		<ul style="list-style-type: none"> <li>Protective earthing</li> <li>Over-voltage tripping</li> <li>Over-current tripping</li> <li>Automatic power cut-off on opening the test compartment lid</li> </ul>	
Power supply and consumption	Mains supply voltage		230 VAC, ± 10 % (110 V option)	
	Mains supply frequency		50 / 60 Hz	
	Power consumption		up to 100 V·A	
Physical	Dimensions, H × W × D		278 × 461 × 274 mm	312 × 555 × 312 mm
	Weight		21 kg	32 kg

■ Test vessels



	Test vessel according to IEC 60156-95 and GOST 6581 (400 ml + mushroom electrodes)
	Test vessel according to IEC 60156-95 (400 ml vessel + spherical electrodes)
	Test vessel according to ASTM D877 (150 ml + cylindrical electrodes)

Specifications are subject to change without notice. Pictures are for illustration purposes only.