

OLT series

AUTOMATIC INSULATING OIL DIELECTRIC STRENGTH TESTERS



- **Test voltage up to 100 kV**
- **Automatic test cycle**
- **Support of wide selection of standards (IEC 60156:1995, 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 μ 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.



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			OLT-80	OLT-100
Test parameters	Output voltage	Breakdown voltage determining and indication range	20 ... 80 kV _{RMS}	20 ... 100 kV _{RMS}
		Relative indication 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	Determining and indication range	minus 55 ... + 125 °C	
		Indication resolution	1 °C	
System parameters	Test mode		Automatic	
	Supported testing standards		<ul style="list-style-type: none"> ▪ IEC 60156:1995 ▪ GOST 6581-75 ▪ ASTM D877 ▪ IP 295 ▪ IRAM 2341 ▪ Single test ▪ Other (user-defined) 	
Interfaces	Display		Monochrome, 128 × 64 px	
	Menu languages		<ul style="list-style-type: none"> ▪ Russian ▪ English ▪ Italian ▪ Portuguese ▪ Spanish ▪ Other (option) 	
	Connection interfaces		USB-B (PC connection)	
	Internal memory		<ul style="list-style-type: none"> ▪ up to 10 testing standards ▪ up to 128 test results 	
	Printer		Built-in thermal printer, (paper roll width 57 mm)	
	Safety	Grounding		<ul style="list-style-type: none"> ▪ Protective earthing
Protection		<ul style="list-style-type: none"> ▪ Overvoltage ▪ Overcurrent 		
High voltage switch off		<ul style="list-style-type: none"> ▪ Automatic power cut-off on opening the test compartment lid 		
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 cells



	<p>Test cell according to IEC 60156:1995 and GOST 6581-75 (400 ml + mushroom electrodes)</p>
	<p>Test cell according to IEC 60156:1995 (400 ml vessel + spherical electrodes)</p>
	<p>Test cell according to ASTM D877 (150 ml + cylindrical electrodes)</p>

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



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