

ISO 3kV 连续可调耐压/绝缘测试仪 ISO 3kV Dielectric Strength Tester

使用手册 Instruction Manual

CE



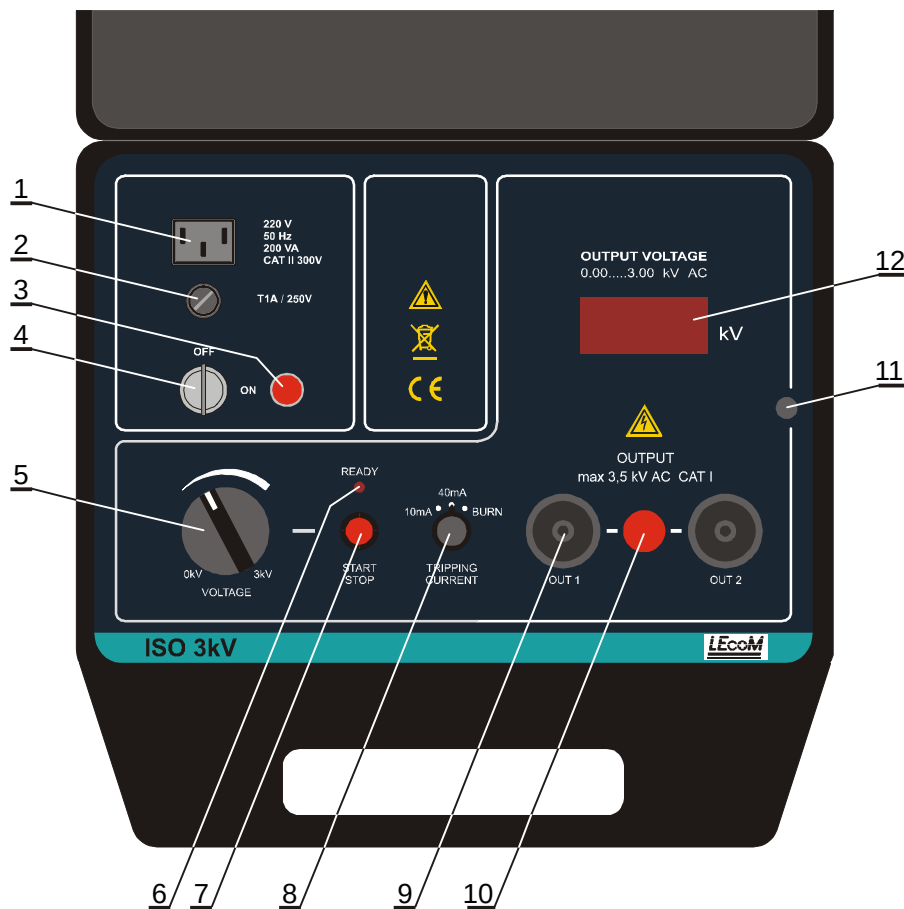
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1. DESCRIPTION

The **ISO 3kV** tester is a HV Dielectric Strength Tester. High range of adjustable test voltage 0 up to 3 kVAC enables various dielectrics in various applications to be tested. Adjusted test voltage is currently displayed by a digital V-meter. Floating output is a good feature of the **ISO 3kV** tester enabling the operator to connect test leads to tested object without taking care on test probe polarity.

Continuous test current capacity is 40 mA while breakthrough current capacity is over 200 mA. Two HV safety test guns are used to carry out the tests.



Legend:

- 1 Mains socket
- 2 Mains fuse T4A/250V
- 3 Mains voltage presence lamp
- 4 Mains ON / OFF key-switch
- 5 Test voltage button to adjust the test voltage to 0 up to 3 kV
- 6 READY lamp to show when the START key is active
- 7 START / STOP button to switch ON / OFF test voltage
- 8 TRIPPING CURRENT selection rotary switches
- 9 Two HV test gun sockets
- 10 ... ON lamp to show presence of possible high test voltage - DANGEROUS
- 11 LED display to show the value of present test voltage

2. WARNINGS!



- Do not do a short-circuit on test leads in BURN mode while the function is running. The instrument may be damaged!
- Do not touch the object under test while the test is running. Danger of electrical shock!



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- Use exclusively mains plug with protection earth terminal to supply the ISO 3kV tester.
- Make sure to disconnect mains cord before replacing blown fuse. Danger of electric shock!
- Use only accessories supplied in complet with the test instrument!
- Do not use the instrument if there is any damage noticed on the instrument or test accessories!
- The instruction manual contains information and references, necessary for safe operation and maintenance of the instrument. Prior to using the instrument (commisioning / assembly) the user is kindly requested to thoroughly read the instruction manual and comply with it in all sections.
- Failure to read the instruction manual or to comply with the warnings and references contained herein can result in serious bodily or instrument damage.

3. TEST PROCEDURE

3.1 Connection and switching ON the instrument

- Connect the ISO 3kV tester to mains plug with PE terminal via enclosed mains cord.
- Connect two attached test guns to test sockets.
- Turn mains key-switch to ON position, ON lamp goes ON while READY lamp stays OFF and START key is not operational yet (safety reason). After the first pressing to START key the READY lamp goes ON without switching on test voltage.
- Next START / STOP key activations will toggle ON / OFF test voltage (READY lamp will follow the test voltage).

3.2 Test procedure

- Select appropriate tripping current by using TRIPPING CURRENT rotary switch (10 mA, 40 mA or BURN). BURN position means that continuous test current higher than 40 mA is enabled but for limited time (approx. 3 s). Max. test current in break through circumstance can be even higher than 200 mA.
- Press the START button, test voltage is switched ON and currently displayed, red warning lamp OUTPUT VOLTAGE goes ON and READY lamp goes OFF.
- Set appropriate test voltage by means of TEST VOLTAGE button according to the application requirements.
- Press triggers on both test guns and connect test tips to the object to be tested. The test is completed if no break through occurs.

4. TECHNICAL DATA

Mains voltage	220 V $\pm$ 10%, 50 Hz
Output test voltage	Manually adjustable 0 up to 3 kVAC
Display of output test voltage	Digital LED V - meter
Accuracy of displayed test voltage	$\pm$ 3% of displayed value (above 300V)
Output current	- 40 mA continuously, - over 200 mA in case of break through
Tripping current (trip out of test voltage)	-10 mA or - 40 mA or - BURN
Nominal operation temperature range	0 up to 40 °C
Allowed humidity range	10 up to 85 % RH (0 up to 40 °C)
Protection class	I (protection conductor)
Dimensions	260 mm $\times$ 340 mm $\times$ 170 mm
Mass	7 kg

5. STANDARD SET

- Instrument ISO 3kV
- HV test gun, 2 pcs
- Mains cord
- Instruction manual

6. MAINTENANCE AND CALIBRATION

6.1 Fuse

Mains fuse T 4A / 250V (5 × 20 mm) is located on front panel. Replace it with original type only in case of no operation!

6.2 Periodic Calibration

It is essential that measurement instrument is regularly calibrated. We recommend the calibration to be carried out once per two years..

6.3 Cleaning

The instrument is allowed to be cleaned with soft patch slightly moistened with soap water. Do not spill the water over the instrument!
Do not use the instrument until it is totally dry after being cleaned!

7.相关产品:



LECOM
MT300E 机械电气设备安全特性综合测试仪



LECOM:
ISO7.5kV 连续可调耐压/绝缘测试仪



LECOM:
ISO7kV 连续可调耐压/绝缘测试仪