

User Manual

LK2674A



Voltage Resistance Tester



Introduction

To user:

We appreciate it very much that you choose our product. Please read our manual carefully before you use it. We provide one year quality assurance and the consummation after-sale service. If during the using process, you discover any question, please promptly contact us.

Thanks your trust and the support sincerely!

Special statement:

- This manual is not the requiremnet basis for the buyer.
- This operation manual final explanation power belongs to this company.



Brief Introduction:

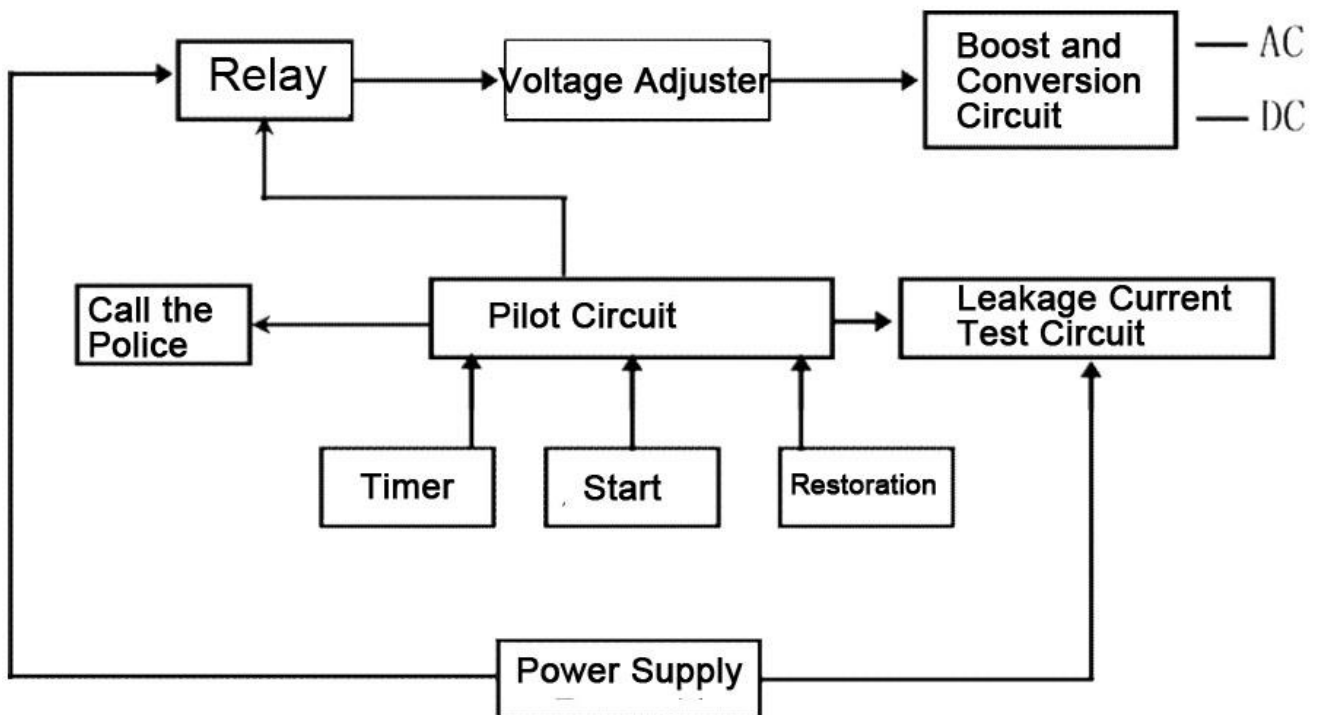
Voltage Resistance Tester is an instrument to measure the voltage strength. It can directly, accurately, quickly and reliably test the breakdown voltage, leakage current and other electrical safety performance indicators of various tested objects. It can also be used as a high-voltage source to test the performance of components and the whole machine. LK267X series voltage tester is designed according to the international and domestic safety standards of IEC, CSA, UL, JIS and so on. The voltage withstand output is 1kV~50kV and leakage current is 0~200mA. It is suitable for testing the safety and leakage current of various household electrical appliances, power switches, wires and cables, transformers, wiring terminals, high-voltage bakelite electrical appliances, motors, medical treatment, chemical industry, instruments and meters, as well as the testing of the safety and leakage current of the strong power system.

LK267X series pressure tester products are based on the absorption and digestion of domestic and foreign advanced pressure tester, combined with the actual use of many users to improve, improve the design. Test voltage, leakage current at the same time, according to the abundant practical function, can be measured body leakage current leakage current according to reflect the real value of and comparison of similar products of different batch or pressure of different manufacturers products quality, ensure that your product safety performance is safe, on the technical performance and quality reliability in the domestic leading level.

Technical Specifications:



1. Voltage test range	AC/DC: 0~20kV voltage accuracy: 5%FS;
2. Leakage current test range	AC/DC: 0~2mA, 2mA~10mA; accuracy: 5%FS;
3. Preset range of leakage current alarm value	AC/DC: 0.3ma ~2mA, 2mA~10mA (continuous setting);
4. Time test range	1s~99s, continuous setting and manual operation;
5. Capacity	200VA;
6. Output waveform	sine wave AC;DC
7. Power supply	198V ~ 242V AC 47.5hz ~ 52.5hz;
8. Working conditions	environmental temperature 0 ~ 40 C, humidity ≤75% RH;
9. Volume	440x440x245mm;
10. Weight	30kg;
11. Accessories	one high voltage test stick, one power cord, one manual, one warranty card and one qualification certificate.



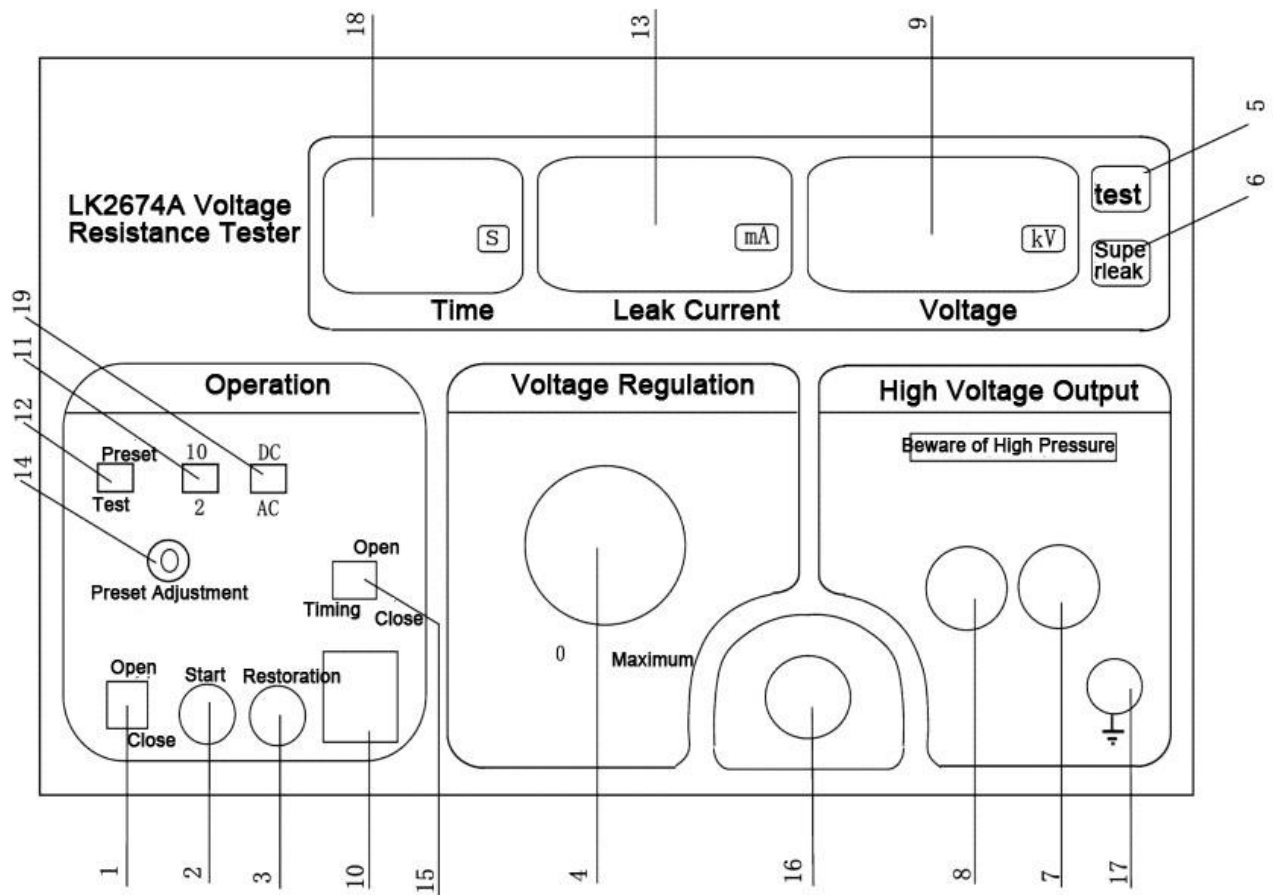
(FIG. 1)

Panel Instructions:

1. Power switch;
2. Start button: when pressed, the test lamp will be on, and the instrument will output high voltage;
3. Reset button: when pressed, the test lamp will be off, and there will be no high-voltage output;
4. Voltage regulation button: adjust the output voltage, which is small in inverse time and large in reverse;
5. Test light: the light is on, indicating that the high voltage has been started, and the high voltage is disconnected when the light is off;
6. Over-leakage light: the light is on, indicating the breakdown of the measured object, and over-leakage is unqualified;
7. High voltage output terminal: -DC high voltage output terminal;
8. High voltage output terminal: AC high voltage output terminal;
9. Voltmeter: output voltage indicator;
- 10, time timer: 1s~99s timing adjustment, you can set the required test time value;
11. Selection switch of the range of leakage current: switch the range of leakage current indicating ammeter. The switch pops out as the range of 0-2ma, and the switch presses down as the range of 2-10ma.
12. Preset/test switch of leakage current: press the switch to set the alarm value of leakage current, and the switch will pop out. When normal, it will be the test state, and the value of leakage current can be detected in real time through "leakage current indicating ammeter".



13. Leakage current indicating ammeter: according to the position of "leakage current range switch", indicating 0~2mA value and 2 ma ~ 10 ma values;
14. Preset adjustment button of leakage current: press the preset/test switch to continuously set the alarm value of leakage current 0.3ma ~2mA or 2mA~10mA;
- 15, timing switch: press the switch, adjust the time timer can set the test time, pop up the switch, the timer does not work;
16. Remote control socket: due to the high output voltage of the machine, the remote control function is not configured;
17. Ground column: for connection and test of ground wire;
18. Time display window;
19. AC/DC transfer switch: the popup state is AC AC test, and the down state is DC DC test.



LK2674A Voltage Resistance Tester Panel
Figure 2



Operating Steps:

Must wear rubber insulation gloves, seat under the rubber insulation pad! Only when the test lamp is off and there is no high voltage output can the test object be connected or disassembled!

1. Connect the object under test and make sure that the voltmeter indicates "0" and the test lamp is off. If it is AC test, select the AC high-voltage output hole connection test line; if it is DC test, select the DC high-voltage output hole connection test line and connect the ground line; 2. Set the value required for leakage current test;

1) press the preset/test switch;

2) select the current range, 0 ~ 2mA range or 2mA ~ 10mA range;

3) adjust the required leakage current alarm value;

4) pop the preset/test switch.

3. Manual test:
1) set the timing switch to the off state. If it is AC test, the AC/DC switch will pop up. If it is DC test, press the AC/DC switch. Press the start button, the test light will be on, and turn the voltage adjustment button to the required indicating value;

2) if the leakage current index of the measured object exceeds the specified leakage current value, the instrument will automatically cut off the output voltage, and the buzzer will give an alarm, and the over-leakage indicator light will be on. At this time, the leakage current index of the measured object is unqualified. Press the reset key to eliminate the alarm sound. On the contrary, the leakage current index of the measured object is qualified.

Timing test:

1) press the time switch to adjust the value of the time timer and set the required test time value;

2) set the alarm value of leakage current and press the start button to adjust the voltage to the required test value;

3) if the timing time is up, the test voltage is cut off and the test lamp goes out, then the leakage current index of the tested object is qualified; if the current is too large, the over-leakage light will be on in the timing process and the buzzer will give an alarm. The leakage current index of the measured object is unqualified. Press reset

Key to eliminate the alarm sound.

Caution:

1. The operator must wear rubber insulating gloves and put rubber insulating pads under the seat to prevent high-voltage electric shock;

2. The instrument must be reliably grounded;



3. When connecting the body under test, the high voltage output must be "0" and in the "reset" state;
4. During the test, the instrument ground end should be connected with the measured body reliably, and open circuit is strictly prohibited;
5. Do not short circuit the output ground wire and ac power wire, so as to avoid the danger caused by high voltage in the shell;
6. Avoid short-circuit between the high-voltage output end and the ground as much as possible to prevent accidents;
7. Once the test lamp and the over-leakage lamp are damaged, they must be replaced immediately to prevent misjudgment;
8. Power must be cut off when troubleshooting;
9. When the instrument adjusts the high voltage without load, the leakage current indicates the starting current, which is normal and does not affect the test accuracy;
10. Avoid direct sunlight and do not use or store the instrument in a high temperature, damp and dusty environment;
11. After the instrument has been used for one year, it must be sent to the metrology department or back to the factory for verification according to the requirements of the state technical supervision department. Only after it is qualified can it continue to be used.

Common Troubleshooting:

Serial number	Common fault phenomena	Trouble removal
1	The display board is not displayed after pressing the power switch	The fuse is burnt out and normal after replacement
2	The test light is not on after pressing the start switch, and there is no high voltage output	NE556 The chip is damaged and normal after replacement
3	The timing is invalid after pressing the timing switch	9013 The triode is damaged and normal after replacement
4	The instrument dies when hitting high pressure	7107 Display chip damaged, normal after replacement
5	Instrument startup alarm	The preset potentiometer is damaged and normal after replacement
6	No output current displayed	The 20k resistance in the resistance box is damaged and normal after replacement



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