

Dear Client,

Thank you for purchasing our HTJY-80S Transformer Oil BDV Tester(Three Cups). Please read the manual in detail prior to first use, which will help you use the equipment skillfully.



Our aim is to improve and perfect the company's products continually, so there may be slight differences between your purchase equipment and its instruction manual. You can find the changes in the appendix. Sorry for the inconvenience. If you have further questions, welcome to contact with our service department.



The input/output terminals and the test column may bring voltage, when you plug/draw the test wire or power outlet, they will cause electric spark. PLEASE

CAUTION RISK OF ELECTRICAL SHOCK!

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◆ **SERIOUS COMMITMENT**

All products of our company carry one year limited warranty from the date of shipment. If any such product proves defective during this warranty period we will maintain it for free. Meanwhile we implement lifetime service. Except otherwise agreed by contract.

◆ **SAFETY REQUIREMENTS**

Please read the following safety precautions carefully to avoid body injury and prevent the product or other relevant subassembly to damage. In order to avoid possible danger, this product can only be used within the prescribed scope.

Only qualified technician can carry out maintenance or repair work.

--To avoid fire and personal injury:

Use Proper Power Cord

Only use the power wire supplied by the product or meet the specification of this produce.

Connect and Disconnect Correctly

When the test wire is connected to the live terminal, please do not connect or disconnect the test wire.

Grounding

The product is grounded through the power wire; besides, the

ground pole of the shell must be grounded. To prevent electric shock, the grounding conductor must be connected to the ground.

Make sure the product has been grounded correctly before connecting with the input/output port.

Pay Attention to the Ratings of All Terminals

To prevent the fire hazard or electric shock, please be care of all ratings and labels/marks of this product. Before connecting, please read the instruction manual to acquire information about the ratings.

Do Not Operate without Covers

Do not operate this product when covers or panels removed.

Use Proper Fuse

Only use the fuse with type and rating specified for the product.

Avoid Touching Bare Circuit and Charged Metal

Do not touch the bare connection points and parts of energized equipment.

Do Not Operate with Suspicious Failures

If you encounter operating failure, do not continue. Please contact with our maintenance staff.

Do Not Operate in Wet/Damp Conditions.

Do Not Operate in Explosive Atmospheres.

Ensure Product Surfaces Clean and Dry

— **Security Terms**

Warning: indicates that death or severe personal injury may result if proper precautions are not taken

Caution: indicates that property damage may result if proper precautions are not taken.

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First item summary

This type of insulating oil dielectric strength tester is my company all the scientific and technical personnel, according to national standard GB507-86 line and the DL - 474-4-92 DL/T596-1996 regulations, play their own advantages, after a lot of field test and long-term unremitting efforts, carefully research and development of high accuracy, fully digital industrial equipment. This machine is easy to operate, beautiful shape. Due to adopt fully automatic digital computer control, so the measurement of high precision, strong anti-jamming capability, safe and reliable.

Second, the instrument characteristics

1. Instrument adopt large capacity single-chip microcomputer control, stable and reliable work;
2. The instrument is equipped with temperature and humidity in time clock display function, and is equipped with grounding alarm to remind customers pay attention to safety;
3. The instrument has wide range of watchdog circuit to eliminate the phenomenon of crash;
4. A variety of choices, operation instrument program with GB1986, GB2002 two methods of national standard and custom operation, able to adapt to a variety of different users to choose;
5. The instrument oil cup is made of a special glass casting forming, to eliminate the phenomenon of oil and other interference occurred;
6. Special high voltage side sampling design for test values

directly into the A/D converter, to avoid the error caused in the analog circuit, make more accurate measurement results;

7. An instrument has over current, over voltage, short circuit protection, and other functions, and with a strong anti-jamming capability, good electromagnetic compatibility.

Third, technical indicators

1. 1.5 kVA booster capacity
2. The pressure rise rate of 2.0 kV/s, 2.5 kV/s, 3.0 kV/s, 3.5 kV/s
four gears
3. The output voltage of 0 ~ 80 kV (optional)
4. Voltage accuracy + (2% reading word + 2)
5. Power distortion rate of < 1%
6. The electrode gap standard 2.5 mm
7. Test 6 times (1-6 optional)
8. Let stand 5 min time (1-9 min optional)
9. Overall dimensions 670 mm * 420mm * 410mm
10. The instrument was 38 kg in weight

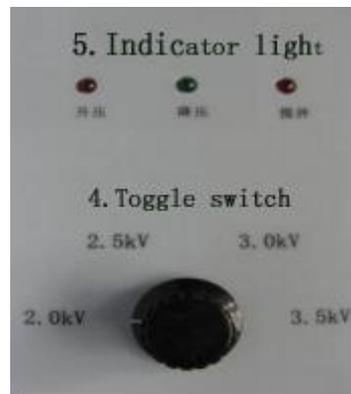
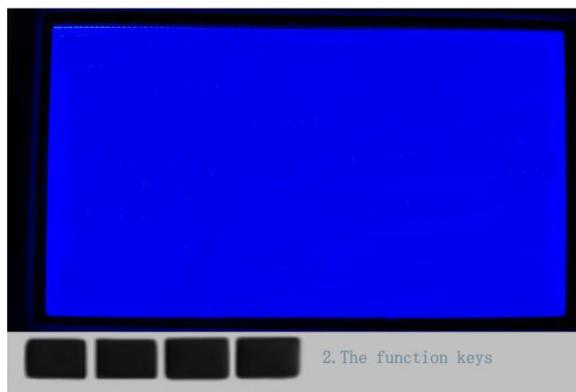
Fourth, conditions of use

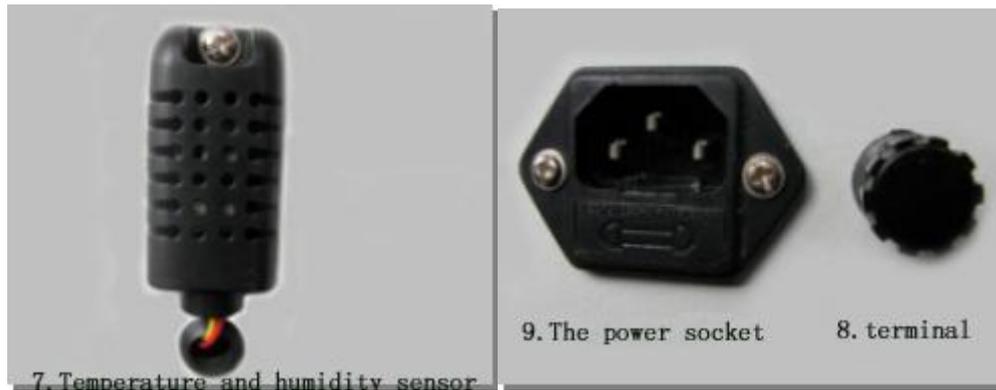
1. 0 ~ 40 °C ambient temperature
2. The relative humidity of 85% or less
3. Power AC 220 v (1 + / - 10%)
4. The power frequency 50 Hz (1 + / - 10%)
5. Power consumption < 200 W

fifth, Description of chassis and panel parts



Note: 1. The liquid crystal display;2. The function keys;3. The printer;4. The rate of pressure rise toggle switch;5. The indicator light;6. Oil cup cover 7. Temperature, humidity sensor;8. Ground column;9. The power switch;10. The power switch;11. A high voltage safety sign





1. LCD screen to display the date, time, operating parameters, test results and operation menu prompts and other related information;
2. The function keys to choose operation parameter Settings;
3. The printer to print a single and multiple test results of average;
4. Switch to choose different pressure rise rate;
5. When the indicator light is lit said related steps is now under way;
6. Oil cup cover open add or remove oil cup, after close the rear can test;
7. Temperature humidity sensor to measure temperature of 0 degrees Celsius temperature and relative humidity, and converted into digital signals to display;
8. Ground column reliable ground wire column;
9. Good power socket plug AC 50 hz, 220 v power cord;
10. The power switch control instrument power on and off;
11. Mark prompt high dangerous triangle sign.

sixth, diagram of operation steps

1. Plug the power cord, open the power switch, LCD shows on the page (figure 1)

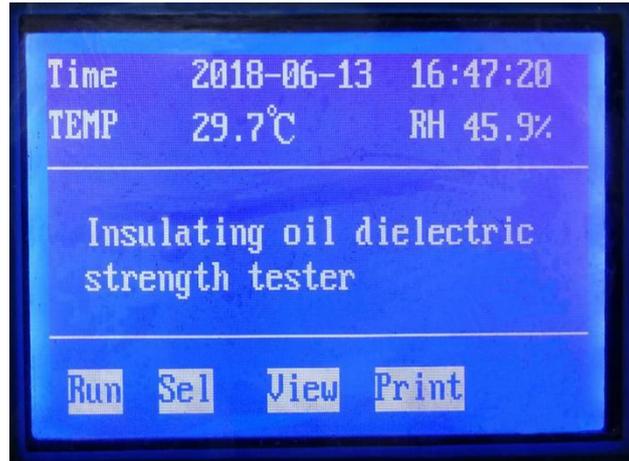


Figure 1 startup page

2. In figure 1 page, press set button to enter the next level page (figure 2).



Figure 2 selector page

3. In figure 2 page, press the select key to move the cursor) GB1986, press the ok button to enter national standard 1986 set child pages (figure 3).



GB1986 child pages

In figure 3 page, press the select key move the cursor to stop rising voltage, press the + or - button set ting up voltage, its default value is 80 kV, optional scope of 10 kV ~ 80 kV (incremental $\Delta = 10$ kV).Choose good after stopping up voltage, press keys move the cursor to a cup of a selection, press confirm button to enter a cup a selector page (figure 4).



Figure 4 cups of a selector page

In figure 4 pages, press the select key move the cursor to the different cup, press x or a tick # define cup, the default value is all (that is, each cup of square root).And then press ok button to

confirm the selected stop litres of voltage and cup return to boot the page number, press the start key for testing.

If there is no reliable grounding, instrument displays grounding, please!And send out alarm, should turn off the power at this moment, again after good earthed.If there is no installation of ground wire or no conditions, can press any key to skip, will not affect the test results.

4. In figure 2 page, press the select key to move the cursor) GB2002, press the ok button to enter national standard 2002 set child pages.Operating under the page with GB1986 child pages basic same, refer to six, operation steps diagram 3. The related content.

5. In figure 2 page, press the select key to move the cursor) time Settings, press the ok button to enter time set child pages (figure 5).



Figure 5. Set the child page.

Press the select key move cursor - to the year, month, day, time and distance, press the + or - key to choose the specific numerical, according to the confirmation key, and return to the start page;

6. In figure 2 page, press the select key to move the cursor) Settings, press the ok button to enter the custom set child pages (figure 6);



Figure 6 a custom Settings page

7. In figure 6 pages, press the select key move the cursor to the corresponding option, then press the + or - key parameters can be set. Among them:

Let stand for 15 min, the default value range of 1 ~ 15 min (incremental $\Delta = 1$ min);

The time interval between the default value of 5 min, range 1 ~ 10 min (incremental $\Delta = 1$ min);

Mixing time default 10 s, the range of 5 ~ 90 s (incremental $\Delta = 5$ s);

Stop up the default 60 kV voltage, range of 10 ~ 80 kV (incremental $\Delta = 10$ kV). When the instrument booster to stop rising voltage Time

will cease to step up and into the state. If no breakdown for 15 s, the instrument will default to the current stop up voltage of insulating oil breakdown voltage;

On the default value is 6, optional range 1 ~ 6 times (incremental $\Delta = 1$);Set after press ok button to return to the start page, press the start key test;

Cup a cup press this button to enter a selection child pages, specific see six operation, operation steps diagram 3. The related content.

7. For this model, every cup of up to 6 times parallel determination parameters such as the breakdown voltage value will be automatically stored. After the measurement screen will display to remind the test, press the confirmation key to return to the start page (figure 1).Press to print or display, enter the sample single breakdown voltage value, arithmetic mean value and measurement of the date and time display child pages (figure 7 ~ 9).

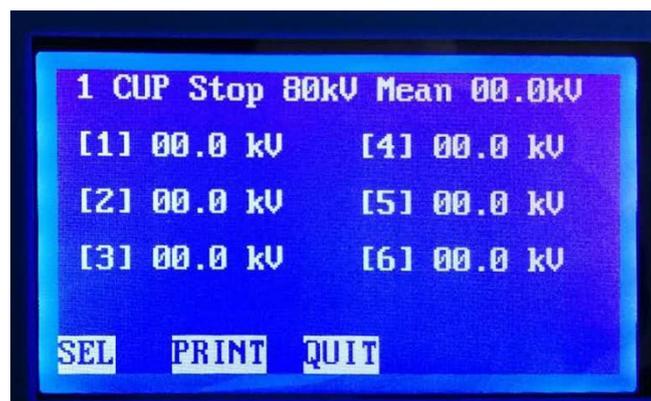


Figure 7.

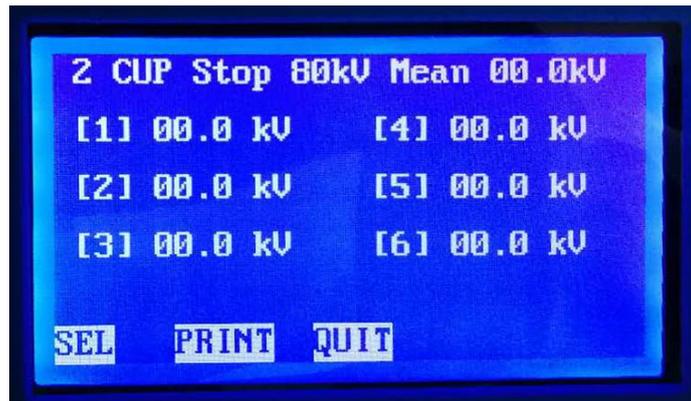


Figure 8.

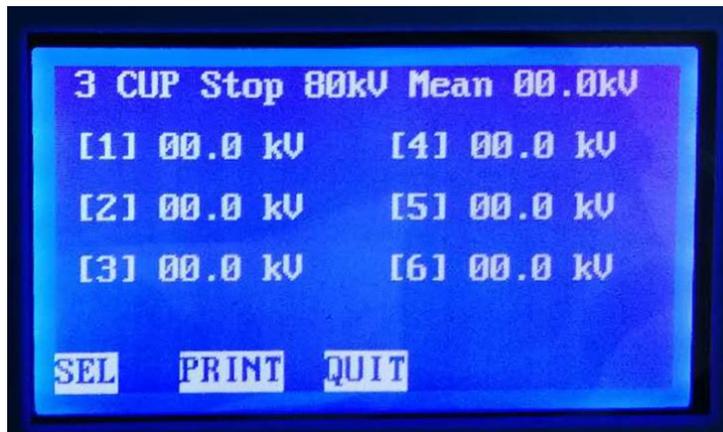


Figure 9.

interface without measuring time, according to data for temporary data group, will be lost after shutdown. Then three interface measuring time, according to data for the stored data set, will not be lost after shutdown. If the oil cup sample is more than three, the system will be grouped by time, records show that the recent three sets of data.

In show the child pages, press print to print the store data for the selected page, click confirm button to return to the main page.

The seventh, matters needing attention

1. Before using this instrument, be sure to read this operation manual;
2. The instrument operators should be familiar with electrical equipment or analysis instrument of general use common sense;
3. The instrument is applicable to both inside and outside the home, but should avoid the rain, corrosive gas, high dust, high temperatures or direct sunlight and other places;
4. The oil cup should be kept clean. During the outage, should add enough dry qualified insulating oil immersion, keep oil cup will not be affected with damp be affected with damp and oxide electrode;
5. Use after a month in a row, electrode should be routine inspection and maintenance. Check and adjust the electrode gap, make its restore standard; A magnifying glass to observe whether the electrode surface appear dark spots, if has this phenomenon, application of silk cloth to wipe the electrode surface, make its restore;
6. A professional instrument maintenance and debugging should be complete;
7. Before turning on the power supply, should check carefully whether the cable is firm, instrument shell must be reliable grounding.
8. After turning on the power supply, operators are strictly forbidden to touch the oil cup lid shell, lest produce an electric shock danger!
9. The instrument is in use process, if discovery is unusual should immediately cut off the power!

eighth, simple troubleshooting

1. Boot no reaction: Check whether the power cord is plugged in properly and check whether the safety tube is intact;
2. No booster: Check whether the cap of the oil cup box is covered;
3. Normal wear without breakdown: Check if the setting limits the boost speed;
4. No display after breakdown: Check the oil cup for dirt;
5. The printer is out of paper: Check if the printer has any paper;
6. Replace the printer paper: The printer has been installed with printer paper. If the printing paper is used, new printing paper will be installed. The installation method opens the printer to put the paper bin, put the paper into the paper, extend a part. The printing paper light faces the direction of heat - sensitive tooth.

The ninth, Equipment package

1. The equipment 1
2. The oil cup 3 sets
3. The power cord 1
4. The standard gauge 1
5. Insurance tube 2 (3 a)
6. Impeller four

7. Tweezers
8. Printing paper 1 shaft
9. The ground 1

The first ten, after-sales service:

Instruments within one year from the date of purchase, the product quality problem free warranty, life-long maintenance and technical services. If it is found that the instrument is not normal or defective, please contact with our company, in order to arrange the most convenient and effective processing scheme for you.

