

# Cellphone Keyboard button life testing machine

*Model: SR-211*



## **Summary:**

key and button life-span tester is suitable for key switch, computer keyboard, conductive rubber, metal shrapnel key (commonly known as pot) or the same type of life aging test, USES the advanced programmer life test process control buttons, can conduct life test and conducting tests at the same time, key damage automatic stop, always "conduction" or object to be tested is always "no conduction, the machine will stop running in 8 seconds.

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- 1.It can be used to simulate the real use of the mobile keyboard.
- 2.Using Japanese SMC precision pneumatic components, the strike force precision adjustable  
----- (calibration of calibrator), durable use;
- 3.It adopts mitsubishi LCD touch screen +PLC for program control and reliable quality.
- 4.It can also test 3 sets of mobile phones at the same time. The different treatment devices can be adjusted up and down, left and right, and can be adjusted to meet different specifications.
- 5.It can meet the requirements of the front and side buttons of the mobile phone and test the requirements.
- 6. Each button can set different pressure and different height.
- 7. High cost performance measurement head can be placed in any corner of the test platform for convenient operation and clamping, which can be applied to the test of 15 keys with maximum reliability test.

**Technical parameters:**

Product name	Button key durability life test machine
Application	button life test
Test product quantity	3PCS

Counter	8 sets
Power supply	220V 50Hz, 5A
Test speed	0~300time/min(0~120 optional)
Strike contact force	0~500gf (optional)
Test head expansion stroke	0~20mm
Lift platform stroke	60mm
The machine size	500*420*480mm
Display	mitsubishi LCD touch screen +PLC for program control
Weight	About 75Kg

## Operation steps

- 1. Put the machine in the smooth surface, no violent vibration and indoor humidity is not more than 75% RH laboratory (the machine base plate and interior wall and similar content should keep at least 0.3 m) to adjust the machine base plate of the horizontal screw (to turn clockwise and counterclockwise to increase), will the machine leveling;
- 2. Connect the power supply (2 a) AC220V 50 HZ, open the power supply to the machine control table plate pull move upward position, such as normal electricity, the power light should be on (if not, please check the red urgent stop switch for press,);
- 3. Put the tested products (such as computer keyboard) on the working table, hold the base with the fixed fixture to make it firm, and pay attention to the clamping device as far as possible without interfering with the test;
- 4. Adjust the spacing between the key and the head, so that the head and key are in the right position, and the position of the probe is good when the head is pressed to the lowest point of the stroke;
- 5. Adjust the position of the head and the test piece;
- 6. Set parameters to the required parameters (set method according to after-sales engineer's instructions);
- 7. Everything is ready, press the start button, start testing, adjust test rate according to the test pieces;
- 8. After the test is finished, remove the test piece to verify its quality.

## Four test methods for key life testing machine

1. Provide a mechanical movement.This is the most widely used test method.

1) provide a mechanical movement near the actual environment to simulate.

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2) to specify a mechanical movement according to the equivalent principle of failure or failure of the test product.

.....The experiment is characterized by a method of mechanical motion, which is characterized by high reproducibility when the tolerance requirements of various motion characteristic parameters are met.

2. Provide a testing machine, which is a test method derived from the equivalent principle of failure or failure of test samples.

It is stipulated that the test method is not necessary to measure the motion characteristic parameters, but in some cases the reproducibility is poor.

3. Provide a structural response spectrum. This method is mainly used in impact test.

4. Mechanical environment tests specified in the standard of domestic and foreign mechanical environmental test methods are common:

A. Sine vibration test; Random vibration test;

B. Impact test; Collision test;

C. Centrifugal constant acceleration test; Swing test;

D. Plunging and tipping test; Bounce test;

E. Impact test of key life test machine; Free drop test, etc.

## *After-sales Service*



- 1) 12 months product warranty. Free components will be provided if any performance failure occurs within 12 months caused by non-human damage.
- 2) If you face any problems in future during testing process, We will serve as a technical adviser for lifetime, give you a reply within 48 hours and the solution provided within 3 working days.
- 3) We will provide some guidance for the normal use of the machine, and in the case of the machine is not used for a long time, protection guidance provided, then keep the good performance of the machine.
- 4) We can offer operation video and operation manual, also can provide video-conference.

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