

# **Switch Endurance Testing Machine**

**Instructions for use**

Power Supply: AC220V / 50Hz



**This manual details the machine settings and technical parameters, please keep it safe. Please read the manual carefully before use.**

Thank you for choosing our products. We will not only provide you with excellent quality products but also with reliable after-sales service.

In order to ensure the safety of the user and the integrity of the instrument, please read this operation manual thoroughly before using the instrument and pay attention to the precautions for its use. This manual describes in detail the design principle, operation specification, and maintenance of this instrument. If there are any "test regulations" or "standards" mentioned in this manual, they are for reference only.

- This operation manual cannot be used as a basis for making any requests to the Company.
- The interpretation of this operation manual is the responsibility of our company.

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## I. Overview

This tester is designed in accordance with the corresponding provisions of GB2099.1, GB17465.1, GB15092.1, and is used to test the life test equipment of switch products for household and similar uses. This tester is connected to the load box to test the electrical life of plugs and sockets and couplers and appliance switches. This tester is necessary to test equipment for quality control and quality inspection by the quality inspection department of electrical accessories and household appliances manufacturers.

## II. Construction

The switch and plug socket life testing machine adopts the cylinder to do the power, drive the slide assembly with plug fixture to make reciprocating linear movement, so as to complete the switch on and off action. Its action frequency and on/off time are controlled by PLC (programmable controller) and touch screen, which is easy to operate and reliable to control.

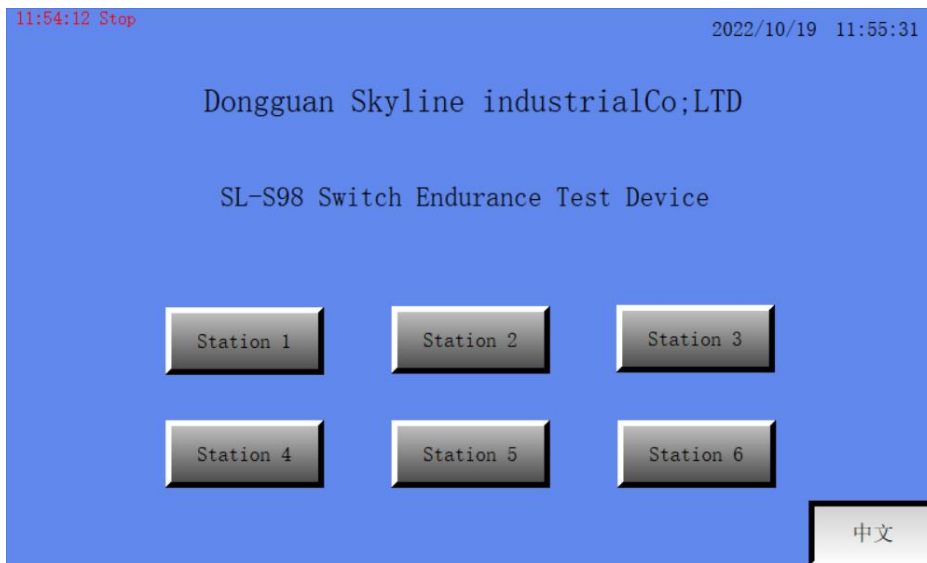
## III. Main technical parameters

1. The number of test materials: six stations, including first and second stations are rotary switch test, third and fourth stations are rocker switch test, and fifth and sixth stations are push-button switch test.
2. Test speed: button switch: 5 ~ 60 times / minute adjustable; rotary switch 1 ~ 10 times / minute adjustable ( Note: once for the reciprocal a cycle ).

3. The number of tests: 1 ~ 999999 times can be set.
4. Turn-on time: 0 ~ 999.9 seconds (minutes) adjustable.
5. Disconnection time: 0 ~ 999.9 seconds (minutes) adjustable; 6.
6. Rotation speed: 5 ° ~ 360 ° / S can be set
7. Rotation angle: 5 ° ~ 7200 ° can be set
8. The number of gears: 1 ~ 10 gears can be set
9. Rotation mode: clockwise rotation, stepper motor precise positioning
10. Power supply: AC220V / 50Hz.
11. Use environment: temperature 0 ~ 40 °C, relative humidity ≤ 85 %, no violent shaking, shock, vibration, and non-corrosive air places.

## IV. Test Interface

The control system uses a touch screen. When selecting functions and setting parameters, simply press the button for that function option with your finger according to the instructions in the screen, and do not press hard to avoid damaging the screen film.



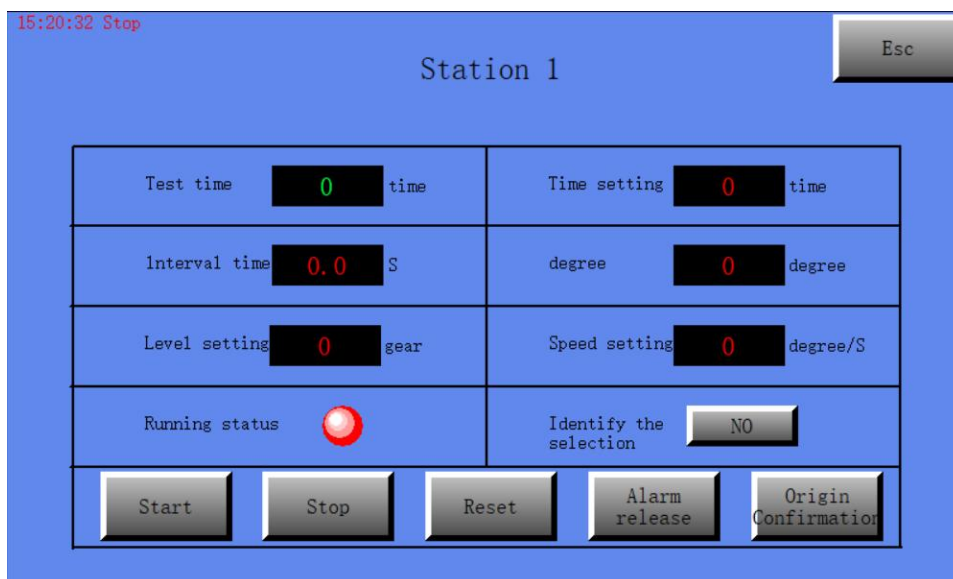
## 1. Open Screen

Picture 1.

Station 1: Enter station 1 test interface.

**Other workstations are the same as one workstation**

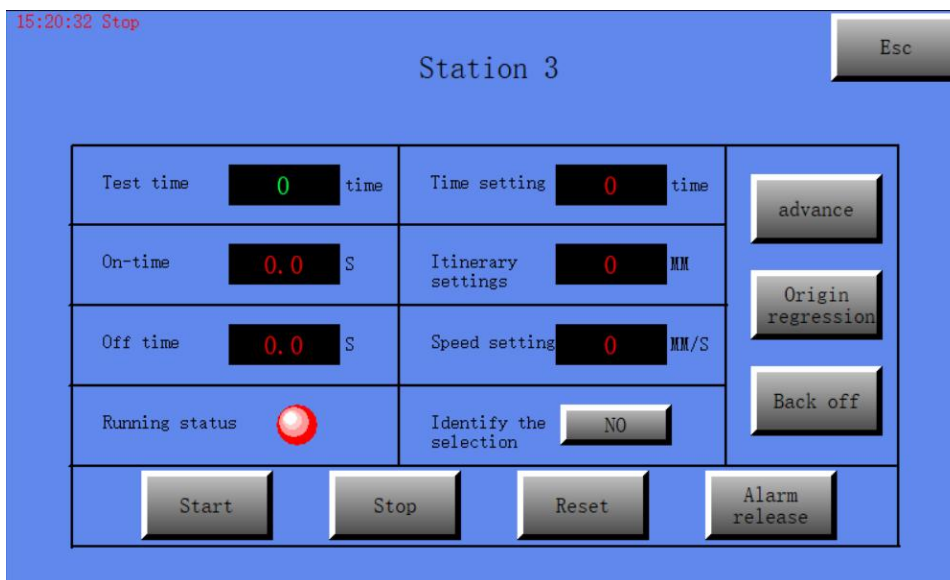
## 2. Rotary switch test(Station 1 or Station 2.)



Picture 2

- (1) . Number of tests: display the actual number of times each station is tested, and the red box is the number of settings.
- (2) . Gear time interval: the time interval of setting gear 0-99.9S can be set.
- (3) . Test angle: 5° ~ 360° can be set
- (4) . Gear setting: set the number of sample gears
- (5) . Test speed: 5° ~ 360° / S can be set
- (6) . Operation status: flashing when testing, not flashing when stopping.
- (7) . Identification options: Yes Alarm occurs when the product produces a fault long pass or long break; No Does not detect the good or bad of the sample and stops when the number of tests is reached.
- (8) .Start: start each switch when pressed
- (9) . Stop: stop the bit switch test when pressed.
- (10) . Clear: clear the number of tests of the bit switch.
- (11) . Alarm release: when the alarm occurs, press this button to stop the alarm.
- (12) . Origin confirmation: after manually adjusting the sample origin, press the origin confirmation to start, not to confirm the origin can not start, to protect the sample switch.

### 3. Rocker switch and push button switch test(station 3-6)



Picture 3

- (1) Number of tests: display the actual number of tests at each station, the red box is the set number.
- (2) Turn-on time: set/display the turn-on time of each station during the test.
- (3) Stroke setting: set the stroke of the drawbar: 0-50MM can be set

- (4) Disconnection time: set/display the disconnection time of each station during the test.
- (5) Speed setting: 0-100MM/S can be set
- (6) Operation status: flashing when testing, not flashing when stopping
- (7) Identification options: Yes Alarm occurs when the product produces a fault long pass or long break; No No detection of the good or bad of the sample, stop when the number of tests is reached
- (8) Start: start each switch when pressed
- (9) Stop: stop the bit switch test when pressed.
- (10) Clear: Clear the test data of the bit switch.
- (11) Alarm release: press this button to release the alarm when it occurs.

## V. Operation method

### 1. Installation of rotary switch.

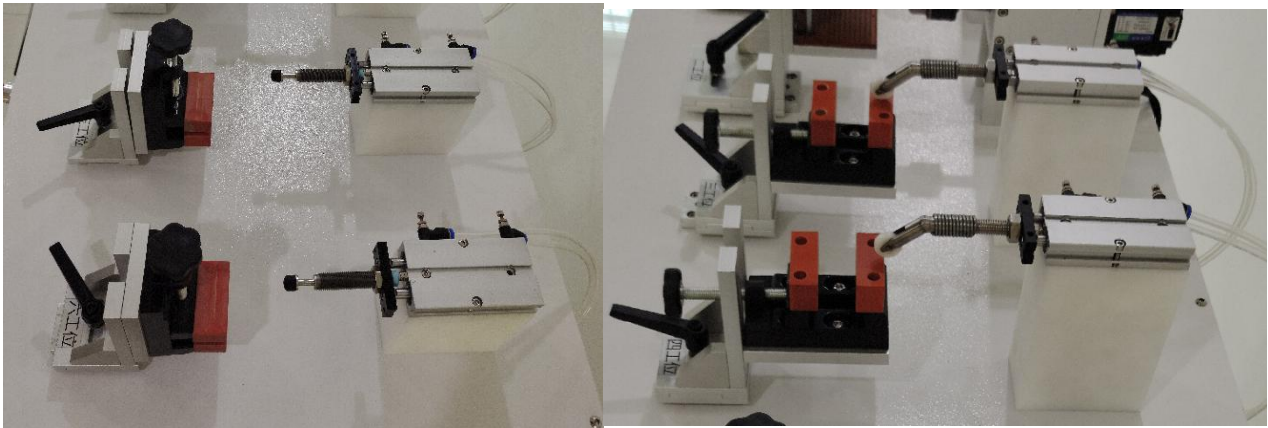
Specimen installation: first install the rotary switch to rotate to the initial position, then clamp the rotary switch on the right fixture, and then clamp the rotary head on the chuck with a special handgrip (see below picture)



### 2. Installation of the rocker/key switch.

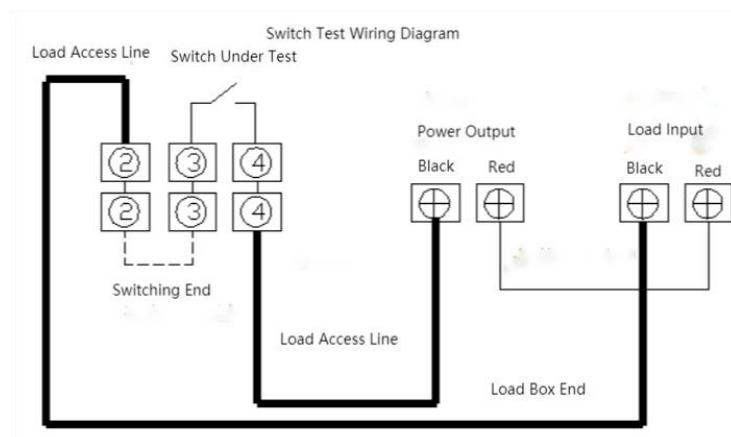
Mount the rocker/key switch tightly in the fixture and adjust the position up, down, left and right





### 3. Test Method

- (1) Install the specimen and adjust the position, point it by hand so that the switch under test can be turned on and off normally.
- (2) Set up all the test parameters according to the test requirements.
- (3) Test without detecting the good or bad of the sample, select no identification, stop after reaching the set number of times.
- (4) Detect the good or bad of the sample during the test, put the sample on the load terminal and choose to have identification.



Switch and load wiring

- (5) Press "Start" key, the test starts, press "Stop" key, the test stops. When the test reaches a predetermined number of times, the test automatically stops, press "zero" to zero the test data.
- (6) After the test, turn off the power.

## VI. Cautions

1. The instrument should be cleaned frequently.
2. During the work, avoid artificially blocking the movement of moving parts.

The shell should be grounded.

## VII. VII. Notes

If there are any omissions in this book that need to be added or corrected, or if

the design of the testing machine is changed due to improvement and innovation, or if a better component is changed and the usage must be explained separately, they are all listed in this column.

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booklet has been compiled to assist your plant in understanding the operation of the machine and the matters to be noted. The examples, diagrams and specifications in this booklet are based on the machine type at the time of publication. The machine type at the time of publication of this booklet shall prevail.

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