

Catalogue		Function
Search	Auto mode	Device search, the unknown type of chip inserted in the IC seat can automatically identify the device type, test quality. (automatic identification without input) three voltage mode optional, silent auto mode.
	5.0v mode	
	3.3v mode	
74HC		74HC series logic device test (same as 74LS series library, different drive level) (need to manually enter the model)
74LS		74LS series logic device test (same as 74HC series library, different drive level) (need to manually enter the model)
CD40		CD4000 series logic device test (different from HEF40 series library, the same drive level) (need to manually enter the model)
HEF40		HEF4000 series logic device test (different from the CD40 series library, the same drive level) (need to manually enter the model)
45/145		45 series 145 series logic device test (need to manually enter the model)
OTHER		Interface driver device testing, such as: max232, max485, 75175, 75176, 75c11.. (need to manually select the model)
AMP		Operational amplifier, comparator test, such as: LM324, LM358, LM339, LM393, LM2902... (need to manually enter the model)
TR		Transistor identification, automatically determine the type of transistor and the order of pin arrangement. Can identify NPN, PNP, triode, N-MOS, P-MOS, one-way thyristor, two-way thyristor, common anode and common cathode rectifier, etc. Automatic identification without input)
ZD		Voltage regulator value test, can test the voltage regulator value in the range of 0v-50v, the accuracy of 0.01v can be automatically identified without input)
LIGHT		Optocouplers such as: TLP521_1, PC817, pc923, 4n25, HCNW4506, BRT11\12\13, HCPL_3101,....
OFF		Shut down

Reminder	Instructions
OK	Test OK
Batter	Battery Voltage
Not found	Not found
Fault	The chip is damaged or the type does not match
Open	Open
Not supported	Not supported
NPN	Triode
PNP	Triode
N-MOS	Field effect tube
P-MOS	Field effect tube
1-SCR	One-way SCR
2-SCR	Triac
2D	Common cathode, common anode rectifier tube
A、k、b、c、e、g、	Specific pin
Out of range	Zener tube voltage is out of range
ERR1、2	Self-test failed
Self-check pass	Self-check pass

Instructions for use of multi-function integrated circuit tester

TSH series multi-function integrated circuit tester is a professional instrument designed for first-line microelectronics engineers and maintenance personnel. Different test modes can be selected: 5v mode, 3.3v mode, AUTO mode, etc. Can test 74HC series, 74LS series, CD4000 series, HEF400 series, 4500 series, operational amplifiers, interface chips, optocouplers, automatic transistor identification, voltage regulator tubes, etc. Recognition of voltage stabilization value and so on. There are more than 1,300 types of built-in chip data models and more than 420 types of transistor data models, covering most common devices within 24 pins, which can greatly reduce workload and improve work efficiency.

Instructions:

There are 7 buttons on the panel which are up, down, left and right and Enter, and shortcut keys O and P.

The up and down keys are used to adjust the catalog and change the model number, and the left and right keys are used to move the cursor left and right to select the item to be changed. The Enter key is used to switch the machine and execute test commands. Open the battery back cover, put in 2 x AA 1.5v batteries, and then close the battery cover. Press Enter for more than 2 seconds to boot, and the current battery voltage will be automatically displayed when the battery is turned on. When the battery power is too low, please replace the battery. The low voltage will affect the reliability and protection of the test results.

Power on: Press the Enter key for more than 2 seconds to power on.

Shutdown: 1. Press Enter in the OFF directory to shut down immediately.

2. Press the Enter key in any directory for more than 10 seconds to shut down.

3. After 60 seconds without any operation, it will automatically shut down

Shortcut: 1. O key is the quick shutdown key (06 type)

2. P key to repeat self-check and reset key

The device placement method is as follows:

1. Align the top of the chip and optocoupler, with pin 1 aligned with pin 1 of the IC socket.

2. Place the transistor in the bottom three slots on the left.

3. The voltage regulator tube is placed between pins 13 and 14 of the IC socket.

Note: The pin sequence shown by the transistors corresponds to pins 10, 11, and 12 of the IC socket from left to right.

