



**Kingpo Technology Development Limited**

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# Bimetal Snap-action Thermostat Endurance Tester KP-73017

## Operation Manual

**Kingpo Technology Development Limited**

Tel: +86 769 81627526

E-mail: [sale1@kingpo.hk](mailto:sale1@kingpo.hk)

Http://[www.kingpo.hk](http://www.kingpo.hk)

Address: No.9 University Rd,Songshan Lake, Dongguan - 523770, China

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# **Bimetal Snap-action Thermostat Endurance Tester**

## **I. Descriptions**

This device is used for automatic reset, temperature-sensitive controller, and test for the lifespan of bimetal snap-action thermostat. It operates stably and reliably, and is easy to operate.

## **II. Technical parameters**

- Power Supply: 220V 50/60Hz
- According to the standard: IEC 60730-1
- Test station: 3 stations;
- Temperature range: 30 - 190°C
- Current: 0.1-20A;
- Test times: 0 - 999999
- Dimensions: 1160 \*700 \* 1310mm (W\*D\* H)



(Equipment photo)



(Control Panel)

- (1) Touch screen display: Control and set parameter values;
- (2) Counter at the 1st workstation: Records the current number of tests;
- (3) Temperature controller at the 1st workstation: Precisely controls temperature and maintains a constant level;
- (4) Emergency stop switch: Immediately stops the test and cuts off the power output;
- (5) Counter at the 2nd workstation: Records the current number of tests;
- (6) Temperature controller at the 2nd workstation: Precisely controls temperature and maintains a constant level;
- (7) Counter at the 3rd workstation: Records the current number of tests;
- (8) Temperature controller at the 3rd workstation: Precisely controls temperature and maintains a constant level;
- (9) Power switch: Controls the power switch of the circuit;



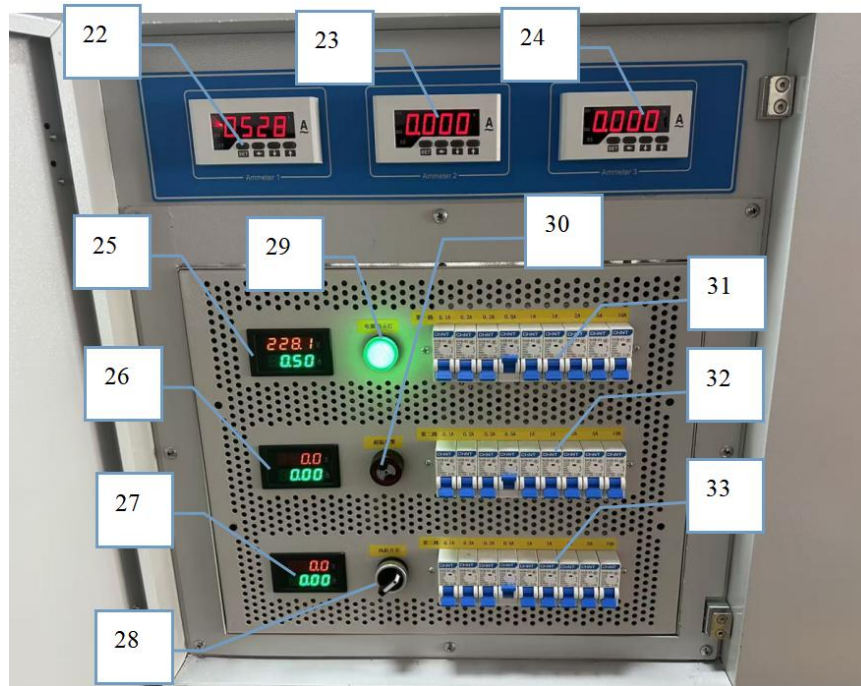
(temperature-controlled meter)

- (10) PV: Displays the current temperature;
- (11) SV: Sets the temperature;
- (12) Parameter setting button;
- (13) Move the window to the left to adjust the set temperature value displayed;
- (14) Decrease the set temperature value;
- (15) Increase the set temperature value;



(Counter)

- (16) Display the current count;
- (17) Display the set count;
- (18) Parameter settings;
- (19) Move the window display count value to the left;
- (20) Increase the set value;
- (21) Reset the display count;



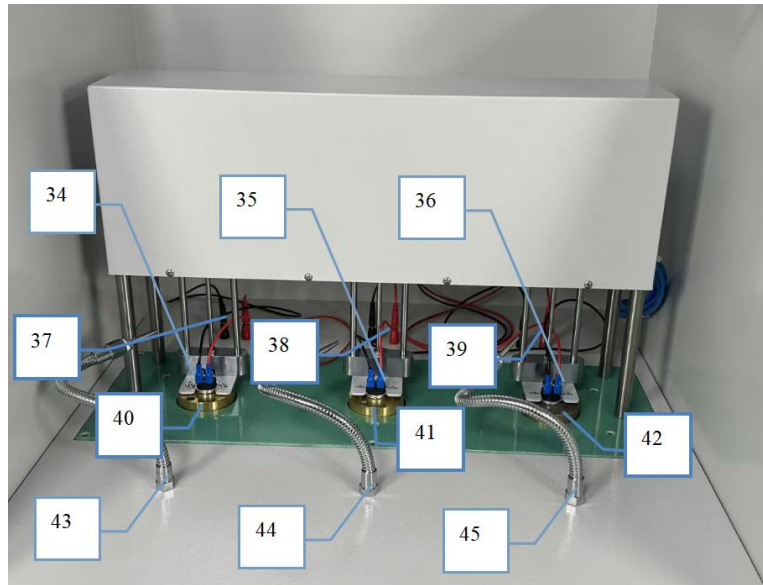
(Current control panel)

- (22) Station 1: Ammeter;
- (23) Station 2: Ammeter;
- (24) Station 3: Ammeter;
- (25) Station 1: Voltmeter;
- (26) Station 2: Voltmeter;
- (27) Station 3: Voltmeter;
- (28) Fan switch;
- (29) Power indicator light;
- (30) Over-temperature alarm;
- (31) Load current setting for Station 1: (Upward is closing, downward is opening. Add up the currents as needed and connect the corresponding circuit breaker);
- (32) Load current setting for Station 2: (Upward is closing, downward is opening. Add up the currents as needed and connect the corresponding circuit breaker);
- (33) Load current setting for Station 3: (Upward is closing, downward is opening. Add up the currents as needed and connect the corresponding circuit breaker)

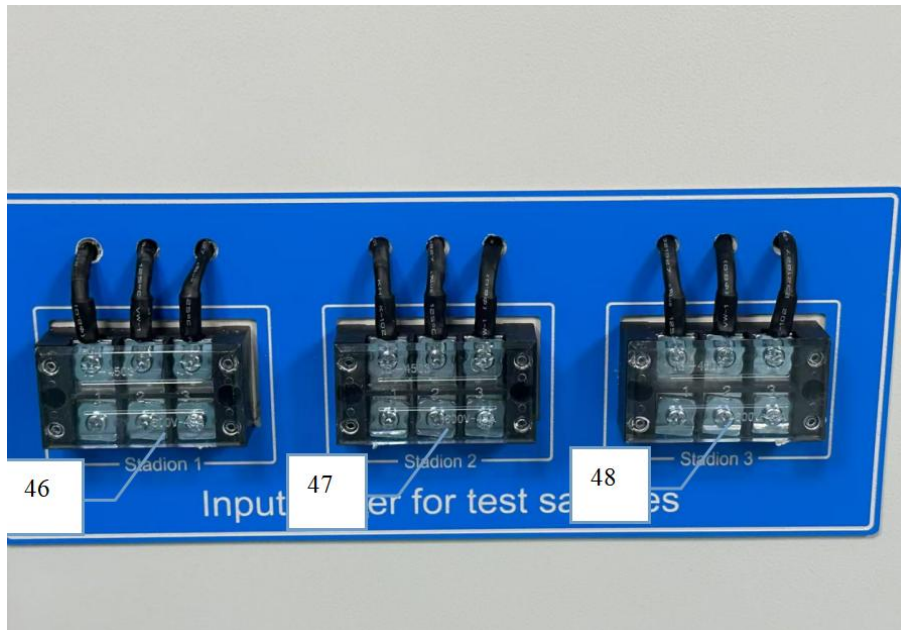
**Examples**



(0.5+1+1+5+10=17.5A)

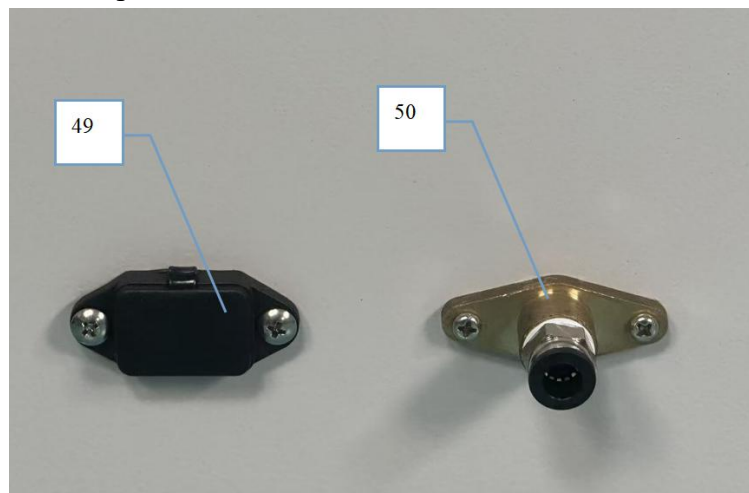


- (34) Station 1: Sample fixture;
- (35) Station 2: Sample fixture;
- (36) Station 3: Sample fixture;
- (37) Station 1: Load terminal;
- (38) Station 2: Load terminal;
- (39) Station 3: Load terminal;
- (40) Station 1: Heating module;
- (41) Station 2: Heating module;
- (42) Station 3: Heating module;
- (43) Station 1: Cooling port;
- (44) Station 2: Cooling port;
- (45) Station 3: Cooling port;



(Test sample power input)

- (46) Station 1: Power Input
- (47) Station 2: Power Input
- (48) Station 3: Power Input



- (47) Power supply for the equipment;
- (48) Air supply port of the equipment;



(Touch operation page)

Heating switch: Start heating;

Count SV: Set the number of tests;

Current break timeout: The time for cutting off the current. If the current is not cut off after the time is up, an alarm will be triggered;

Current flow timeout: The time for connecting the current. If the current is not connected after the time is up, an alarm will be triggered;

Clear: Clear the alarm message;

Current signal: Display when the current is connected or disconnected;

Count PV: Current test frequency;

Reset: Counting reset to zero

Up: Lift the test fixture;

Down: Lower the test fixture;

Load ON: Turn on the load power supply;

Cooling: Turn on the blowing air for cooling;



: The page displays language switcher;



: E-STOP;



: The load fan needs to be turned on.

### III. Operation procedures:

1. Connect the power supply of the equipment and the test power supply of the sample. Connect compressed air (0.1 MPa)
2. Install the test sample on the fixture.
3. Set the test temperature and click the heating button.
4. When the temperature reaches the set temperature, set the test number and load current.
5. Click Start, and the equipment begins to work.

## **IV. Attentions**

1. Be careful of burns.
2. Be lert to the risk of electric shock.
3. Be cautious of mechanical hazards.