



TEC 2602 (Version: AMOSTEC2602OP20231109)

Slide Dryer

Operation Manual

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Foreword

Thank you for purchasing our TEC2602 Slide Dryer. This operation manual introduces product functions, application methods and matters that need attention for safety. Please read in detail before operation to understand its performance and make full use of its functions. If you have any inquiries, please contact us, we are committed to delivering exceptional service whenever you need it.

After reading, please keep this manual properly for later reference.

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1. Safety Matters

1.1 Safety attentions

- Please read these brief guidelines. Failure to adhere to these instructions may disrupt the equipment's regular operation, lead to equipment damage, or pose safety risks.



Please use 220VAC \pm 10% at 50HZ or 110V \pm 10%, 60Hz AC.



Input power supply must be of good earth connection.



Keep away from any flammable or explosive materials.



Unauthorized equipment access risks high-voltage shock.



Only professional maintenance personnel may perform equipment repairs.



Use fuses with correct capacity.



Ensure the power socket and circuit can withstand at least twice the rated current.



Keep away from potential sources of interference.



Caution: Hot.

- **Electrical Protection Ratings: I class, B type**
- **Shell protection grade: IP53**
- **Baleful liquid Leak-in proof degree: Normal (enclosed equipment without liquid leak-in proof)**
- **Working system: Continuous running**

1.2 Conditions of installation

- Provide at least 20cm of space around the equipment for proper heat dissipation.
- No water drop, steam, dust (including oily and airborne).
- No erosive, flammable and explosive gas and liquid.
- Stable and free from vibration.
- No interference from other electromagnetic signals.
- Operate within ambient temperature of 5°C-40°C and relative humidity under 90%.

1.3 Delivery inspection

The product undergoes rigorous quality inspection before leaving the factory. However, negligence or severe impact during delivery may result in damage or partial loss, please check the followings:

1. Upon unpacking, please inspect the contents, including the equipment, operation manual, packing list, and spare parts.
2. Check the nameplate to verify that it corresponds to your order.
3. Ensure that there is no damage or loss during the delivery process.

2. Performance Features & range of Application

The Slide Dryer is made of sheet aluminum, in aesthetically pleasing design, contactless temperature control, stable performance, a program control system, and easy and reliable operation. It is primarily employed for drying stretched and flattened microtome sections of tissues after water bath.

3. Main structures of Slide Dryer

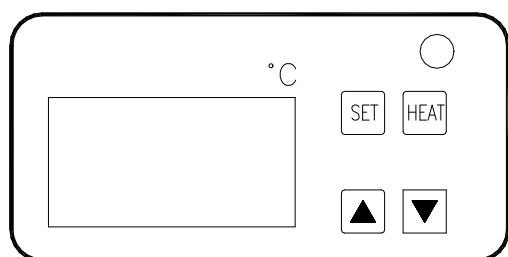




4. Technical Data

- Slide drying table: 324mm×272mm
- Temperature range: ambient temperature ~90℃
- Temperature control accuracy: $\pm 1^{\circ}\text{C}$
- Rated voltage: 220V $\pm 10\%$ at 50Hz or 110V $\pm 10\%$ at 60Hz
- Fuse: 220V/3A or 110V/5A
- Rated power: 350W
- Outside dimensions (mm): 324(W) × 300(D) × 85(H)
- Weight: 2.75kg

5. Operation Guide


● 5.1 Explanation of Function keys




SET--- This function is used to set the temperature. Press the button, and the indicator lamp will illuminate, displaying the set temperature value on the LED screen. Adjust the temperature using  and  buttons, then press **SET** to exit the setting status. Alternatively, the system will automatically exit the setting status if **SET** is not pressed.

HEAT--- Pressing this button activates heating, indicated by the red light. Press the button again to deactivate heating, the indicator light will turn off.

Single buzzing sound indicates the operation is effective.

 ---- Press the key to raise the temperature. A short press increases it by 1 degree, a long press increases it by 0.1, and continuous holding increases it rapidly by 1.

 ----- Press the key to decrease the temperature. A short press decreases it by 1 degree, a long press decreases it by 0.1, and continuous holding decreases it rapidly by 1.

● 5.2 Instructions

- 1) Before operation, ensure every part of the equipment is in good condition.
- 2) Plug in the equipment, switch on power at the rear, and listen for the buzzer. The LED screen will display the ambient temperature, and the green indicator light confirms normal operation.
- 3) You can now operate the machine following the key instructions provided above.
- 4) Temperature error and regulation

The unit, with high precision temperature control, has been calibrated at the factory before shipping. If customer feels that the temperature control accuracy does not meet demands, please follow the calibration method below:

For example, if the set temperature is 48°C, after the unit has been heating for about thirty minutes, test the water temperature with a thermometer. The expected water temperature should be approximately 49.3°C.

Calculate the compensation value as $T_c = T_{\text{setting}} - T_{\text{water}} (-1.3^\circ\text{C})$.

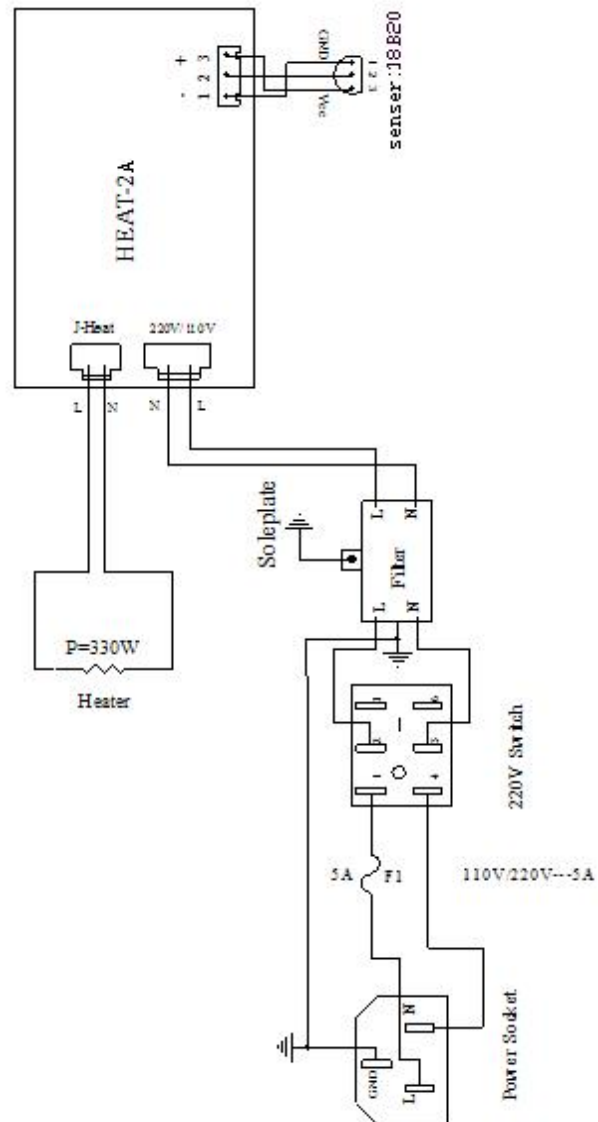
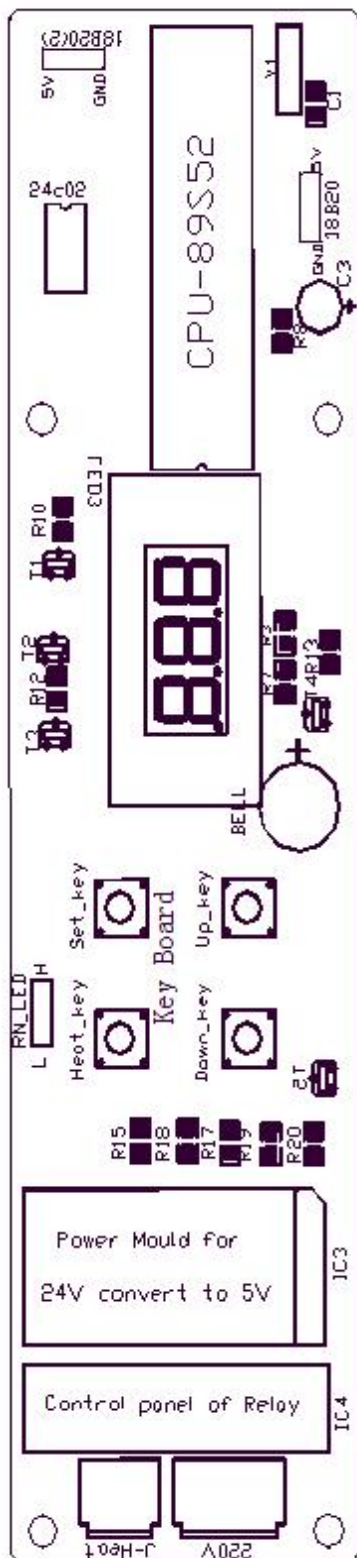
To enter the setting status, press **SET**; The green indicator lamp will illuminate. Long-press **HEAT** for 4 seconds or more, and the LED will display the current temperature compensation range (-4°C to $+6^\circ\text{C}$). If the displayed temperature compensation is 2°C , indicating the need to add $T_c (-1.3^\circ\text{C})$ to get the new compensation T_c' ($2^\circ\text{C} - 1.3^\circ\text{C} = 0.7^\circ\text{C}$), use **▲** Or **▼** to adjust. The system will exit automatically after five seconds.

5.3 Alarm Function

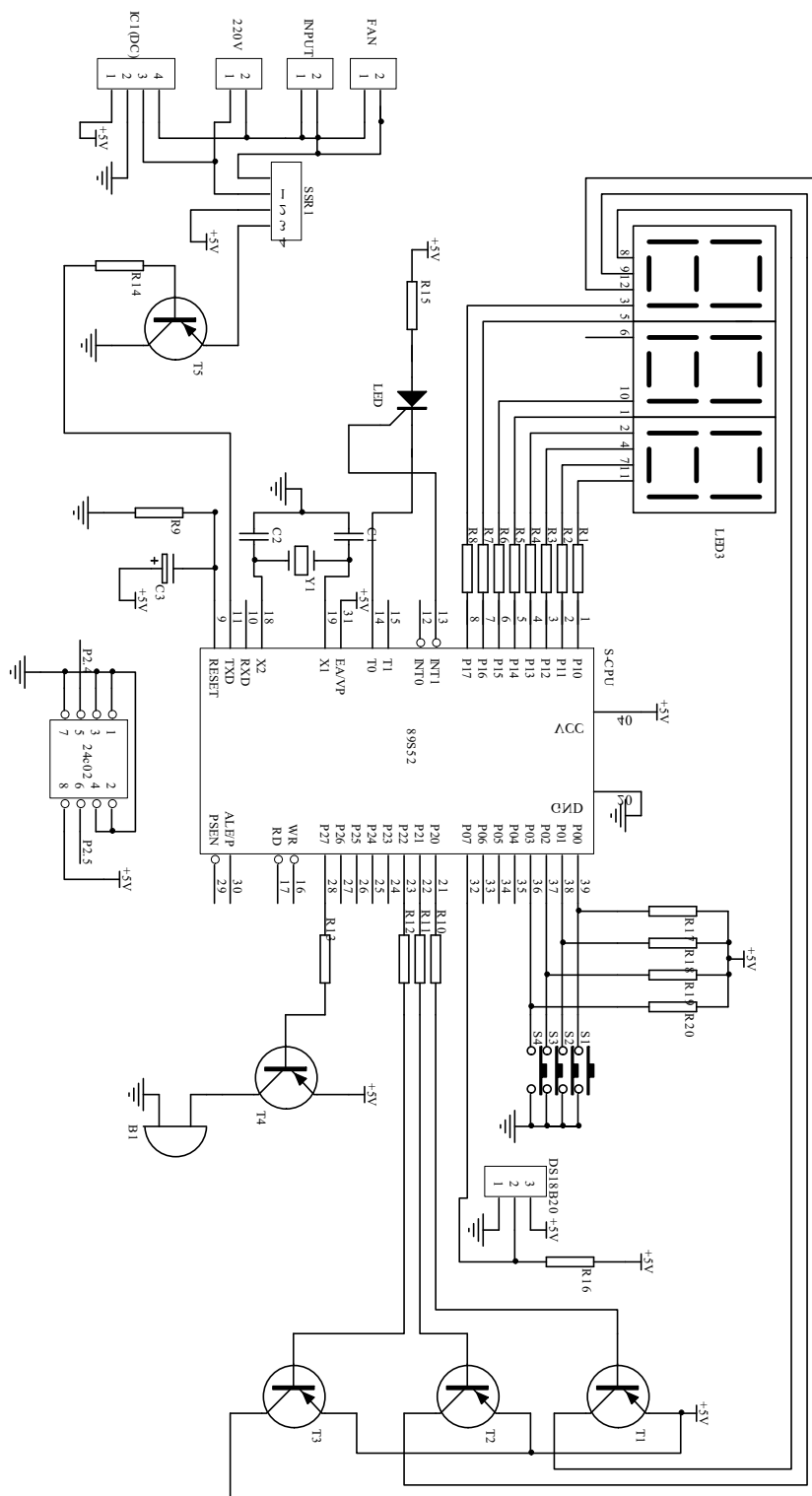
Continuous alarm buzzing indicates a machine malfunction.

- E01:** If, after powering on and heating, the temperature remains unchanged, possible reasons include digital sensor measurement failure or damage to the heating film, solid-state relay, or disconnection.
- E02:** If the digital sensor registers a temperature exceeding 100 degrees, there may be an issue with the solid-state relay or sensor.
- E03:** If the digital sensor detects a temperature below -10 degrees, first, eliminate the possibility of ambient temperature causing the issue. If the ambient temperature is within the specified range and the problem persists, it indicates possible damage to the digital sensor with no signal input. In such cases, please replace the sensor with a new one.

6. Component Layout & Wire Diagram of Electric Equipment



7. Schematic Diagram



8. Cleaning & Maintenance

- Before operation, carefully read the product operation manual and follow its instructions.
- Keep equipment clean. Clean the residuals and dirt after completing tasks.
- Do not use sharp or hard objects that may damage the worktable.
- Installation of fuse as Fig. 4.

Insert fuse (1) into installation part (2) and then place the entire installation part (2) into the socket (3).

- Ensure power is unplugged before replacing the fuse.
- Fuse specifications: 3A (220V), 5A (110V).

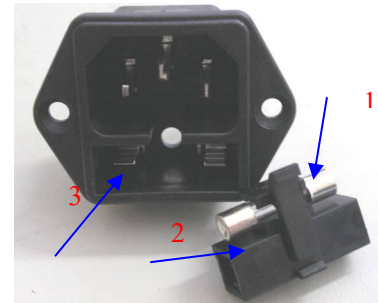


Fig. 4.

9. Trouble shooting

Symptom	Cause	Judgment	Solution
No display	Poor connection of power supply	Connection again	Connection well
	Power switch at the rear wasn't turned on	Turn on	Turn on
	Fuse blow	Take out the fuse to check its internal resistance using a multimeter, if the value is infinite, the fuse is broken	Replace the fuse
Buzzer sounds	Temperature sensor damaged	Connect a new sensor to terminal and start machine, if everything functions correctly, the previous sensor is faulty	Replace the sensor

Standard Accessories List

No	Accessory Name	Qty	Notes
1	Slide Dryer	1 unit	
2	Power Cord	1pc	
3	Fuse	2pcs	
4	Operation Manual	1pc	

Published by:



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