TEC 2800 （Version：AMOSTEC2800TCOP20240407）

Thermal Console

Operation Manual

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Foreword

Thank you for purchasing our TEC2800 Thermal console. This Operation Manual provides information on the functions and operation methods supporting the Embedding Center, as well as safety precautions. Please read this manual carefully before use to better understand its performance and make full use of its functions. If you have any questions, feel free to contact us for assistance at any time, we will provide you with satisfactory service at any time.

Please keep this Operation Manual appropriately for future reference.

Contents

1. Safety Matters

1.1. Safety attentions

Please read these explicit rules. Act in violation of them can affect normal operation of the equipment, cause damage to the equipment or pose safety hazards.

- Use 220VAC±10% at 50HZ or 110VAC±10% at 60HZ.
- The input power supply must have good earthing.
- The equipment should be installed away from flammables and explosives.
- Don’t open the equipment unauthorized to avoid the risk of high voltage shock.
- Only professional maintenance personnel are allowed to repair this product.
- Use fuses with correct capacity.
- Ensure sockets and lines have double the equipment's current capacity.
- The equipment should be installed far away from any interference source.

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

1.2. Conditions of installation

- More than 20cm of space around the equipment for heat dissipation.
- Keep away from water droplets, steam, dust, oily dust, and floating dust.
- Avoid corrosive, flammable, and explosive gases or liquids.
- Install on a sturdy, vibration-free countertop.
- Avoid electromagnetic interference.
- Operating environment temperature should be between 5° C and +40° C, with relative humidity below 90% RH.

1.3. Delivery Inspection

Before leaving the factory, all products undergo rigorous quality control inspections. However, during transportation, damage or partial loss of products may occur due to human handling negligence or severe impacts. Therefore:

- Please check the contents while unpacking, it should include the equipment, an operation manual, the packing list and accessories.
- Please check the nameplate to make sure it is your order.
- Check to make sure no damage or loss has occurred during delivery.

2. Characteristics & Application

TEC2800 Thermal console is a support unit for TEC2800 Embedding Center.

3. Main Structure

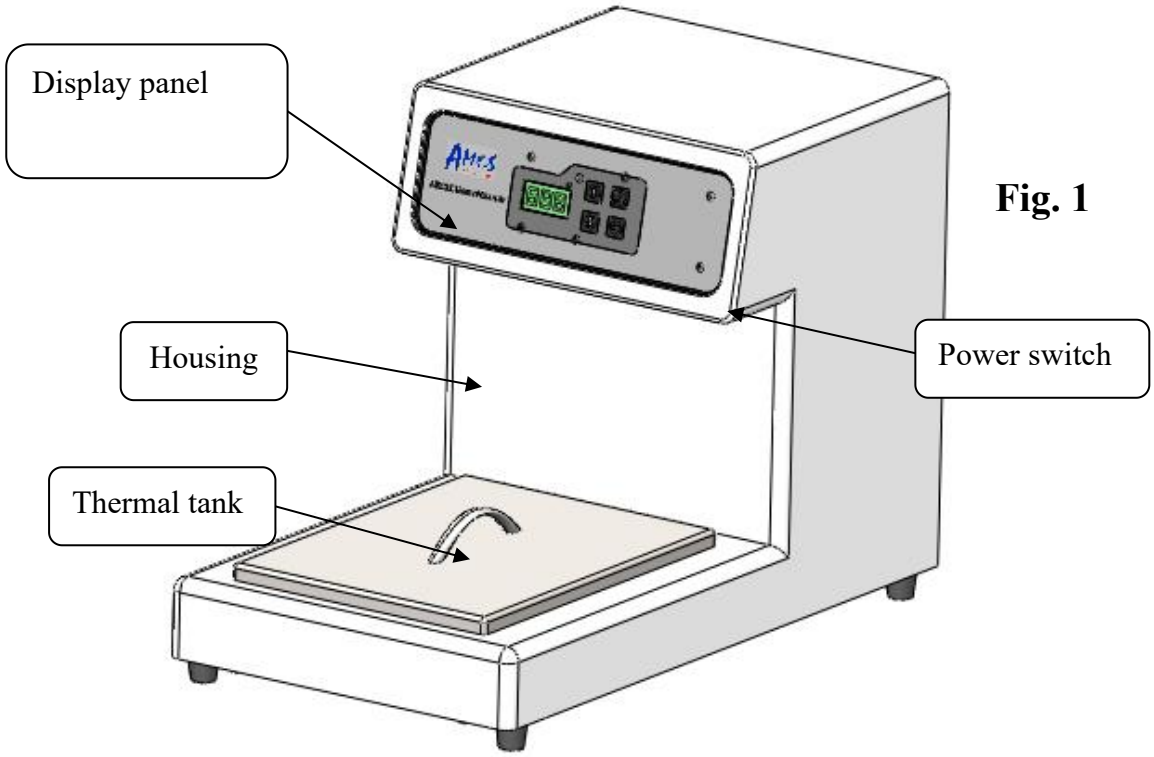


Fig. 1

4. Technical Parameters

⊙Capacity ： 2.5Lt

⊙Working temperature: from ambient to 75℃ increments 1℃

⊙Rated Power：335W

⊙Supply voltage: AC 220V±10% 50Hz or AC 110V±10% 60Hz

⊙Fuse: 220V/3A or 110V/5A

⊙Dimensions

Width:	300mm
Depth:	540mm
Height:	390mm
Weight:	about 7.5Kg

5. Operation

5.1. Explanation of function keys

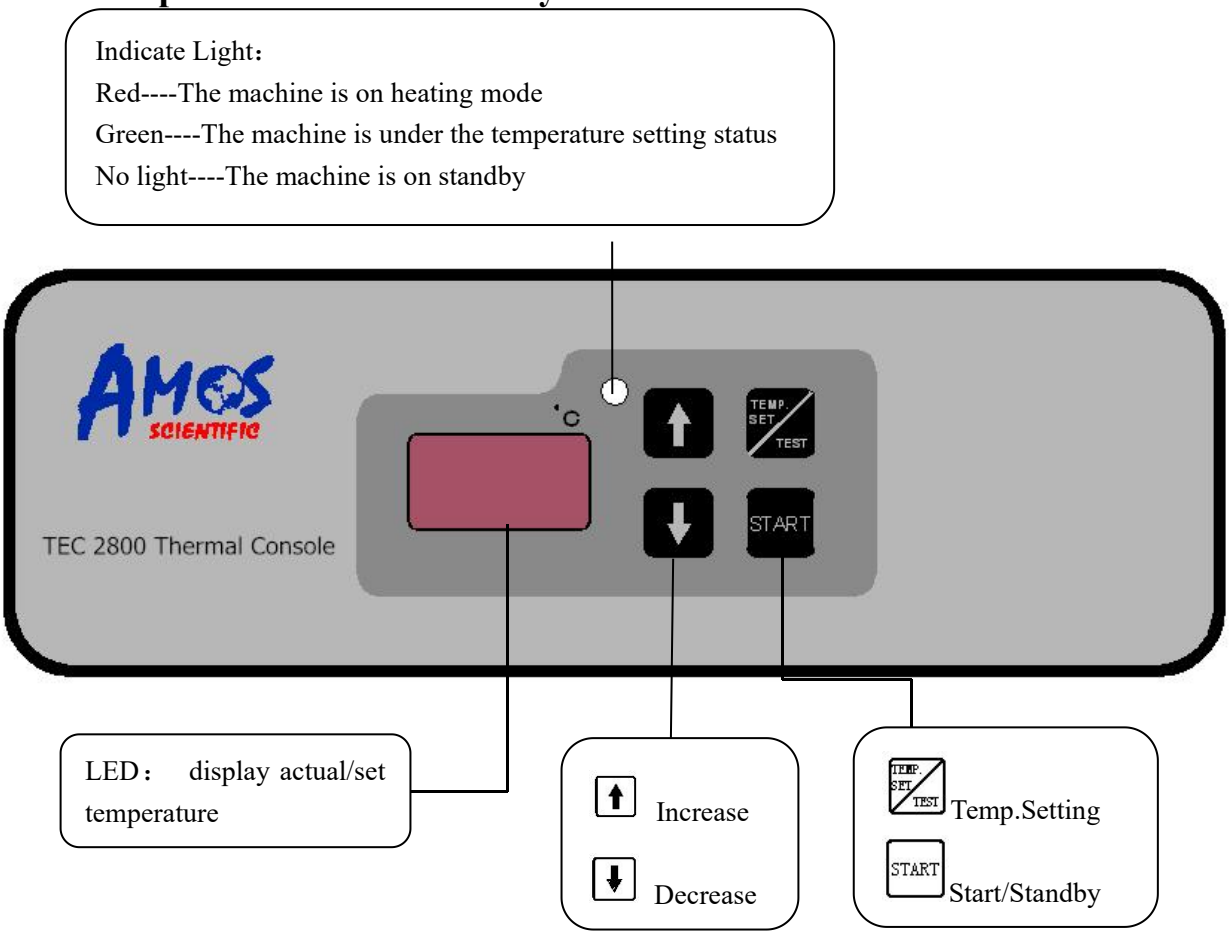


Fig. 2

5.2. Operation instructions

●Temperature Setting

Plug in the power and switch on the power button (refer to Fig. 1).

▲Attention: The power voltage must match the requirements on the instrument nameplate, otherwise it may damage the machine.

Press  (Temperature setting key), the indicator light will turn green. Then, press the plus or minus key to adjust the desired temperature value.

●Example 1: If the actual temperature of the storage box is 25℃, and you want to set the heating temperature to 70℃:

a. Press  ; the indicator light will turn green.

b. Press  continuously until the digital display shows the value of 70.

c. Press  again to exit the setting status.

d. Press  (start/standby key) to start heating; the indicator light will turn red.

After completing the setting, the LED screen will display the temperature increasing from 25℃ to 70℃. Once it reaches 70℃, the indicator lamp will turn off, indicating that the machine has stopped heating, and the temperature will start to decrease.

However, the machine will resume heating if the actual temperature falls below 70℃. (Please note: If you press  to stop heating before reaching 70℃, the temperature will decrease, and it will be displayed on the LED screen.)

▲The temperature setting range is from ambient 0 to 75℃. If the set temperature exceeds this range, the buzzer may sound an alarm, and the LED will display "OF" to indicate the error. (Press  or  to cancel the alarm, as shown in Fig. 3)

Fig. 3

● Example 2: The current actual temperature is 70℃, while the required temperature is 50℃.

a. Press  ; the indicator lamp will turn green.

b. Press  continuously until the LED displays "50".

c. Press  to exit the setting mode, and the indicator lamp will turn off.

After completing the setting, the LED screen will display the temperature decreasing from 70℃ until it reaches 50℃, the indicator light will be off during this process. The machine will resume heating when the actual temperature falls below 50℃, indicated by the red light turning on, maintaining the actual temperature inside the thermal tank to be at 50℃. When the temperature reaches 50℃ again, the heating will stop, and the red light will turn off.

6. Trouble Shooting

Type	Problem	Possible causes	Judge method	Corrective action
No display on the panel	LED screen no display	Power cord plug poor	Plug in again	Plug in again
		Fuse broken	Take out the fuse to check its internal resistance by multimeter, if the value is infinite, the fuse is broken	Replace a new one
		switch power supply no output	Replace the power switch	Replace the power switch
Don't heating	No heating	The temperature setting is wrong	Ambient temperature is bigger than set temperature, the machine is no heating	Reset the temperature
	Single buzzer sound when start	sensor is broken	Check the sensor by multimeter,	Replace the sensor
If there are any trouble can not be resolved , please contact with the manufacturer .				

7. Cleaning&Maintenance

● Please carefully read the specifications when operating the machine according to the operation requirements.

● The dust on the surface of the instrument can be cleaned with a dry cloth, while frequently touched areas can be cleaned with a damp cloth.

● Do not use sharp or hard objects to prevent scratching.

● Insert the fuse (1) into the fuse socket (2) as shown in Fig. 4 and insert the entire assembly into the larger socket (3).

● Before replacing the fuse, make sure to turn off the power switch and disconnect the power supply.

Specification of fuse: 3A（220V），5A(110V)

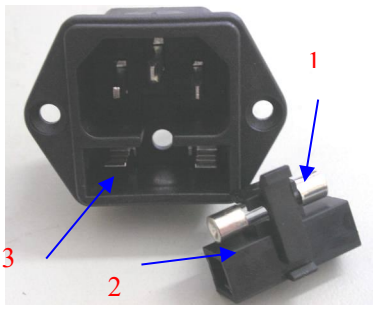
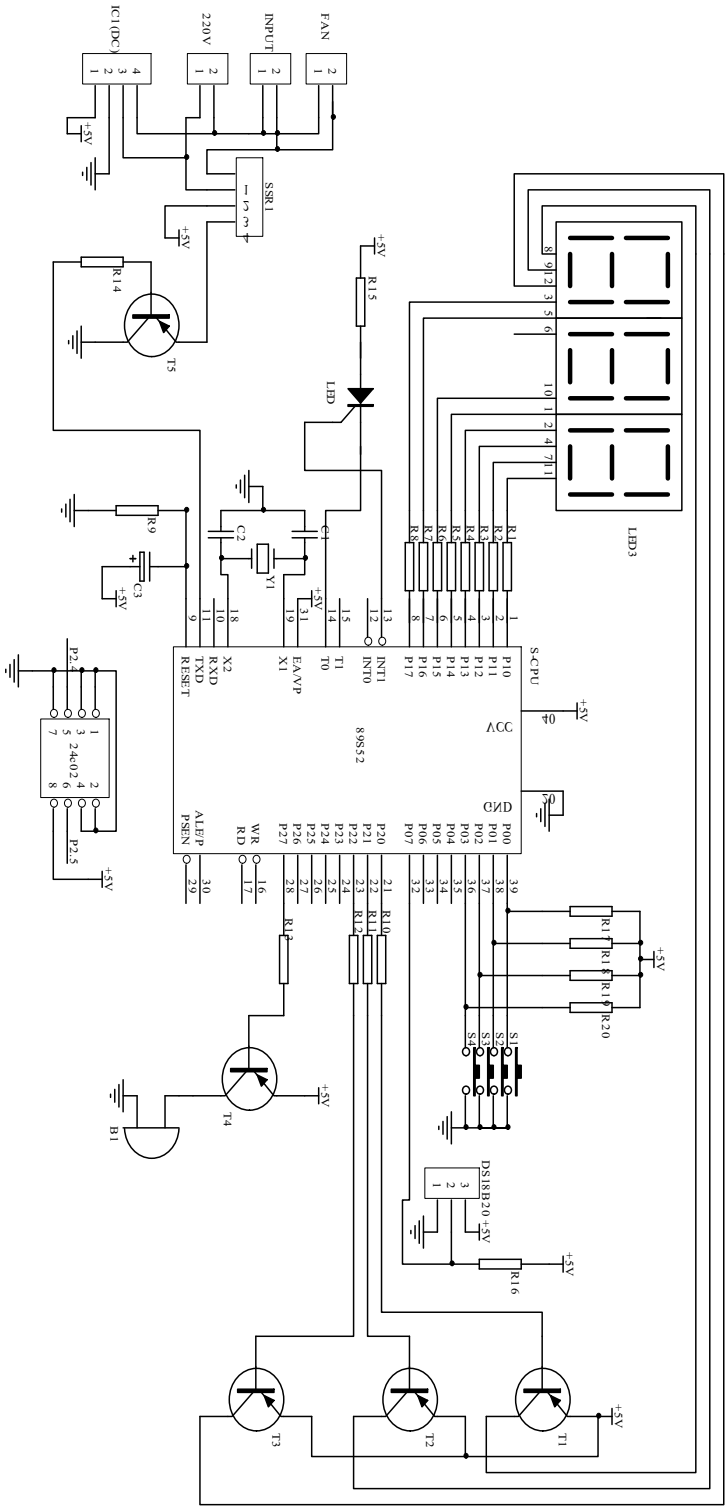
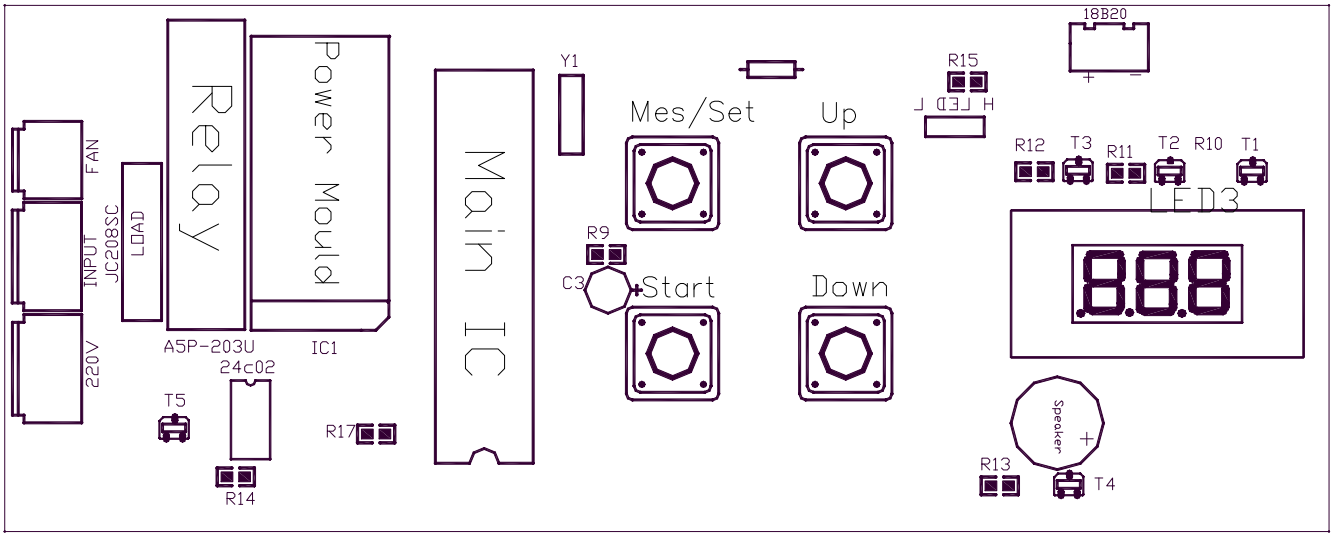


Fig. 4

8. Schematic Diagram of Integrated Circuit



9. Distribution Diagram of Component



Standard accessories list

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

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