

SMDPRO Hot Tweezer Iron

Instruction Manual

Thank you for purchasing the unit. Please read this manual before operating the unit. Store this manual in a safe, easily accessible place for future reference.

4. At the moment, the 100's digit in the screen becomes flicker. Click the “▲” or “▼” button to select the value according to the reading of the thermometer and then click “*” button to confirm it. Here, the calibration operation has been finished.
5. If the temperature still has deflection, you can repeat calibration in accordance with above steps.

NOTE:

- **Recommend using the tip thermometer for measuring the tip's temperature.**
- **If the soldering station is locked by password, it will not be able to calibrate the temperature and it must input the right password.**

Safety Instruction

WARNING

In this instruction manual, “Warning” “Caution” and “Note” are defined as followings:

 WARNING: Misuse may potentially cause death of, or serious injury to the user.

 CAUTION: Misuse may potentially cause injury to the user or physical damage to the objects involved. For your own safety, be sure to comply with these precautions.

NOTE: A Note indicates a procedure or point that is important to the process being described.

CAUTION

When the power is on, the tip temperature is very high. Since mishandling may lead to burn or fire, be sure to comply with the following precautions:

- Please avoid abuse of the equipment, and use the appliance only in the described manner.

- Do not touch the metallic parts near the tip.
- Do not use the product near flammable items.
- Advise other people in the work area that the unit can reach a very high temperature and should be considered potentially dangerous.
- While replace parts or install tips, turn the power off and allow the unit to cool to room temperature.

To prevent damage to the unit and ensure a safe working environment, be sure to comply with the following precautions:

- Appliance shall only be used with rated voltage and frequency. (Refer to the trademark back of equipment.)
- Do not rap soldering iron against the workbench to shake off residual solder, otherwise the iron will be damaged by shocks.
- Do not modify the unit by yourselves.
- Use only genuine replacement parts.
- Do not wet the unit. When your hands are wet, don't use and disconnect the unit, or to pull the supply cord.
- The soldering process will produce smoke, so make sure the area is well ventilated.
- While using the unit, don't do anything which may cause bodily harm or physical damage.
- Children cannot recognize the danger of electrical appliances. Therefore use or keep the appliance only under supervision of adults and out of the reach from children.

1. Specification

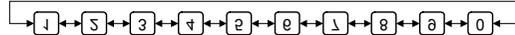
Power consumption	60W
Power	220VAC
Temperature Range	100°C-450°C (Decide by working mode)
Limit of alarming temperature	01°C-99°C

Tip to grounded resistance	under 2Ω
Tip to grounded Potential	under 2 mV
Highest Ambient Temperature	40°C
Temperature Stability	+2°C/Without air flow and no load

2. Setting & Operation Instruction

⚠CAUTION:

Be sure to turn off the power switch before connecting or disconnecting the tweezers iron. Failure to do so may damage the soldering station.

- Click the “▲” or “▼” button, LCD displays “---” and the hundred’s digit comes to flicker.
Page 2
- Click the “▲” or “▼” button again to input the hundred digit of the password.
After inputting, click “*” key to confirm and into the ten’s digit set. Ten’s digit comes to flicker.
- The methods of ten’s digit and one’s digit inputting are same with the hundred’s. After inputting the ten’s digit and one’s digit, click “*” to confirm and into the password inputting again. The digit changing-sequence is as following:

- LCD displays “---” again, at the time, input the same digits as password according to the above steps 3& 4.
- If the password is same with each other two times, the LCD shows “PF”, which means the password setting is successful. After about one second, it runs into the work state directly.
- If the inputting passwords are not same with each other, it runs into the work state directly.

Note: After changing the password, the function of temperature calibration

MODE	Temperature range	Alarm	Remark
00	100°C-350°C	YES	“ (🔔) ” Sign is an alarm tag. Modes of 00 ~ 03 have the alarm function.
10		NO	
01	100°C-380°C	YES	
11		NO	
02	100°C-420°C	YES	
12		NO	
03	100°C-450°C	YES	
13		NO	

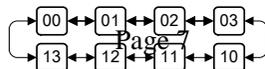
and set are locked and cannot calibrate or set the temperature if not input the right password.

4. Temperature Calibration

The soldering iron should be recalibrated after changing the iron, or replacing the heating element or tip every time. The unit adopts digital calibration and input the revisionary value by pressing button, and adjustment is simply and quickly.

Method of recalibrating temperature: Use the thermometer.

1. Set the temperature to a certain value.
2. When the temperature stabilizes, measure the tip's temperature with thermometer and write down the reading.
3. Press “*” button not loose and press the “▲” & “▼” button simultaneously, it enters into the calibrating temperature mode.



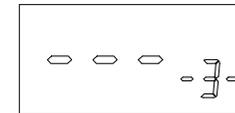
WORK MODE TABLE

3. After changing the work mode, click “*” button to confirm and store the value into the memory. And then, run into the interface of the password setting.

NOTE: If work in the alarming mode (00~03), (🔔) sign will be displayed on the LCD.

3.4 Set the Password

1. In the limit of alarming temperature setting interface, it can come into the interface of the password setting by clicking “*” button two times. The password setting interface is as following:



Password-inputting place

Denote: Menu 3

2.1 Iron Holder and Sponge

⚠️ CAUTION:

The sponge is compressed. It will swell when moistened with water. Before using the unit, moisten the sponge with the water and squeeze it dry. Failure to do so may result in damage to the soldering tip. If the sponge becomes dry

during working, add appropriate water.

1. Dampen the small cleaning sponge with water and then squeeze it dry.
2. Place it in groove of the iron holder base.
3. Add a little water to iron holder. The small sponge will absorb water to keep the large sponge around it wet at all times.
4. Dampen the large cleaning sponge and place it on the iron holder base.

2.2 Connection

CAUTION:

Be sure to turn off the power switch before connecting or disconnecting the soldering iron. Failure to do so may damage the soldering station.

1. Connect the connector of the handle cord to the socket on the unit. Take notice of inserting position about the connector.
2. Place the soldering iron in the iron holder.
3. Insert power plug into grounded power socket.
4. The tweezers iron handle can work with many kind of soldering stations. For example, work with the 251 soldering station.

2.3 Setting the Temperature

Raise Temperature: Click “▲” button and then the temperature will rise 1 °C, and the LCD displays the current setting temperature. If pressing “▲” not loosely at least one second, the setting temperature will rise rapidly. Loose the “▲” button until up to the needed temperature.

Reduce Temperature: Click “▼” button and then the temperature will drop 1 °C,

and the LCD displays the current setting temperature. If pressing “▼” button not loosely at least one second, the setting temperature will drop rapidly. Loose the “▼” button until down to the needed temperature.

3. Parameter Setting

3.1 Into the Parameter Setting

NOTE: the initial password is “000”. Only when the inputting password is right, it can enter into the parameter setting.

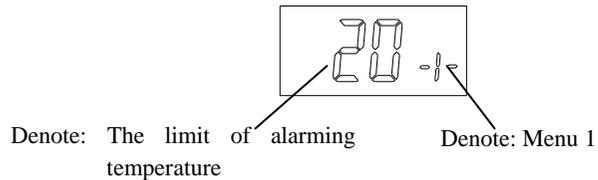
1. Turn off the power switch.
2. Press and hold the “▲” and “▼” buttons simultaneously and not loosen, and then turn on the power switch. At the time, the LCD shows  . Which means it has come into the password-inputting interface.
3. loosen the “▲” and “▼” buttons and then the LCD displays “---” and the 100’s digit becomes flicker, at the time, it needs to input the password.
4. Input password: Click the “▲” or “▼” button to input 100’s digit. And click the “*” button when displaying the selected value of 100’s digit, and then into 10’s digit set. The setting methods of the 10’s digit and 1’s digit are same with the 100’s digit.
5. There are two times to input the password. If the inputting password is not right at the first time, the process will return to the password-inputting interface at

- once and the window displays “---”. Input the password again as the step 4.
- If the inputting passwords both are error two times, the displaying will shows “*Err*” and it comes into the work state about after 2 seconds.
 - If the inputting password is right, it runs into the parameters setting process, first, the limit of alarming temperature setting interface.

3.2 Set the Limit of Alarming Temperature

Page 4

- After into the limit of alarming temperature setting interface, click the “▲” or “▼” button to set it. The limit of alarming temperature interface is as following:

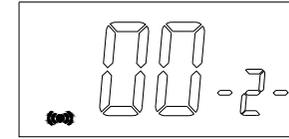


“20” denotes the limit of alarming temperature: during the temperature rising or dropping, if the absolute value of the setting temperature and the real temperature is bigger than the limit of alarming temperature, the unit will alarm when work in the alarming mode.

- After changing the limit of alarming temperature, click “*” button to confirm and store the value into the memory. And then, run into the interface of the work mode setting.
- The limit of alarming temperature range is from 0 to 99°C.

3.3 Set the Work Mode

- After into the limit of alarming temperature setting interface, click “*” button into the interface of the work mode setting. The work mode setting interface is as following:



Alarming sign

Work mode

Denote: Menu 2

- In the work mode setting interface, click the “▲” or “▼” button to set the work mode. The digit changing sequence is as following:

Page 5