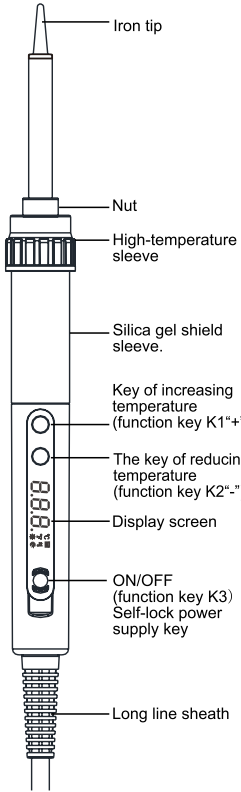


Digital control Thermostat Soldering station user manual

Thanks to use soldering products, please read the instructions carefully before operating soldering iron, in order to avoid operation errors.

Remark:
The "warning" and "note" in the specification are defined as follows:
Warning: wrong operation shall result in death or serious injury.
Note: wrong operation shall result in damage to the users or the objects.



Packing list

Please confirm the package content

- Mainframe. 1
- Instruction manual. 1

Features

- Adapt to 220V/110V power supply voltage, and can be used in all different countries/regions.
- Small volume. Three-key design. Strong function.
- It is very rapid to back to the temperature. The speed of rising temperature is 8 seconds.
- Quality heating element. Ultra strong platinum temperature sensitivity.
- Two modes of displaying temperature(°C and °F) .
- With automatic sleep functionm, without sleep function, at your option.
- Microcomputer temperature compensation. The temperature error is less than negative and positive 5 degrees.
- Have password management function.
- Full high temperature resistance,flexible and high insulating material is adopted for power cable.
- LED display. The content is absolutely clear.
- Have the function of model of memory.
- The handle is made of special high temperature resistant material, ESD antistatic treatment.
- 60/90/110W different powers are available for your choice.

Key K1"+": The key of increasing temperature to increase temperature (function key "+")
Key K2"-": The key of lowering temperature to lower temperature (function key "-").
Key K3"POWER": ON/OFF Self-locking power switch

Parameters:

Power supply: AC220V/50HZ AC110V/60HZ
Welding nozzle earth impedance: < 2 Ω
Welding nozzle earth voltage: < 2 mV

Specifications

Type	General type			Dormancy type			
	No sleep function			With sleep function			
Functional configuration	No sleep function			With sleep function			
Power	60w	90w	110w	60w	90w	110w	
Temperature range:	80~500°C (176~932 F)			80~500°C (176~932 F)			
Soldering Nozzle	900M Series tip			C9 Series tip			
High temperature set of head	GP4			GP3			
Dedicated Exothermic Material Core	220V	A1326	A1329	A13211	A1326	A1329	A13211
	110V	A1316	A1319	A13111	A1316	A1319	A13111
Power Supply	oAC220V/50HZ			oAC110V/60HZ			

※This product is protected against electrostatic discharge.
※Specifications and design are subject to change without notice.

CAUTION

Because wrong operation will cause burns and fire.

Please strictly comply with the following matters:

1. Please avoid abusing the soldering iron, should operate according to the working instruction.
2. Can only use the AC power.
3. Do not touch the metal parts of the soldering iron.
4. Do not use the soldering iron nearby the combustible.
5. Notice staffs that the soldering nozzle is easy to cause burn or other dangerous accidents, so please turn off the power after getting off work.
6. Before replace soldering nozzle, please confirm the power is shut off and the nozzle is cool.
7. It is strictly prohibited to use the product when any damage, especially the power cord damages.
8. This product uses three lines ground-plug which must insert the three hole socket. Prohibit changing the plug or using not ground-plug adapter which results bad ground connection. If want to extend wire, please use the three lines ground- power cord.
9. Do not use soldering nozzle to solder outside of the soldering work.
10. Please don't knock the soldering iron on the table to clear the residual tin slag on iron. Because thus doing shall result in serious damage to the soldering iron.
11. Please don't replace the solder iron without authorization.
12. It is suggested that replace parts with the original accessories.

Note:
Do not touch the metallic parts near the tip.

Warning:
Do not operate nearby the tinder.

12. Don't get the solder iron wet. Please do not use or take apart the solder iron and pull the cord when your hand is damp.
13. It is suggested to work in good ventilation environment, or providing small fans by yourselves owing to the soldering iron will produce smoke when soldering.
14. Prohibit making any damage to body or objects when use the soldering iron.
15. Children don't know the danger of solder iron, so this product should be placed where children are not easy contact or used and stored where providing admitted supervision.

Operational guidelines

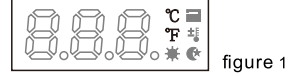
Use numerical control constant temperature welding table

I. Boot operation

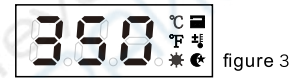
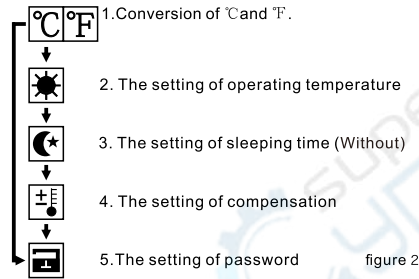
- 1) Power-on. Please remember to use groundingly.
- 2) Turn on power switch of main machine. ON/OFF self-locking power switch(function key K3).

II. The setting of main menu

- 1) Long press K2 key to enter the setting page of main menu. The LED screen is shown as figure 1.



- 2) Enter main menu and single press K1 key to set the circular order of the function of submenu (shown as figure 2). The setting of the first function is °C and °F. Display conversion setting. Press K1 key to enter the setting of the function of the next sub-menu and complete the setting of each function circularly one by one. (shown as figure 3).



*It exceeds 5 seconds without any operation under the status of setting of menu, and then it enters confirmation and saving of the existing set value and exits the setting of menu. Enter normal operating status.

The setting of the function of all submenus. It exceeds 5 seconds without any operation, it equals to long press K2 key and exits and saves all the settings. It enters normal operating status.

III. The setting of submenu.

- 1) The conversion of °C and °F. :

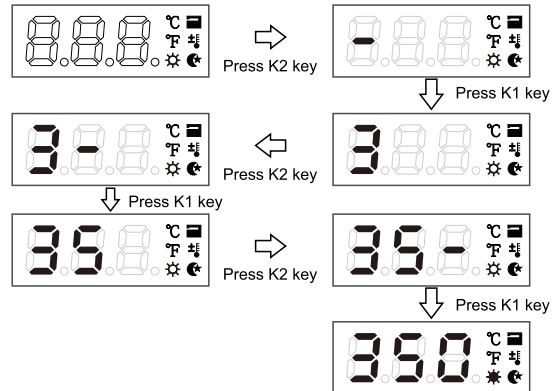
Long press K2 key to enter the item of setting the first function of main menu. It shows °C/°F . If the conversion of °C and °F should be set, and then press K2 key and confirm to enter the setting of the function. Press K1 key and select the completion of setting. Press K2 key again to save. Return to main menu (shown as the following figure). After return to main menu, press K1 key to confirm and enter the setting of operating temperature of the next submenu.



- 2) The setting of temperature. :

The settable temperature range 80°C ~ 500°C.

Long press K2 key to enter the setting of main menu. Press K1 key. It shows to press K2 key and confirm to the setting for the setting of temperature. At this time, press K1 key and K2 key to set the hundred, ten and single digit. Press K2 to save the setting and return to main menu. Set other submenus according to this similar methods.




Note: Under the °C, the values of hundred digit are 0,1,2,3,4,5 five numbers. When the hundred digit is 5, and the ten digit and single digit are shown as 0 automatically. The highest temperature is 500 degree. Press K1 key to enter the confirmation of the setting of operating temperature and enter the setting of the function of the sleeping time of the next submenu.

▲ Note: Under the normal operating situation of not setting password, user can set the needed temperature value without entering the main menu.

2. 1) Press k1 key or K2 key to enter the adjustment of temperature. At this time icon sun twinkles, it means to enter the adjustment and setting of temperature.
2. 2) Press K1 key once. The temperature is increased by one degree correspondingly (press twice, the temperature is increased by two degrees). Long press K1 key and then temperature is increased to 500 degrees rapidly.
2. 3) Press K2 key once, the temperature is reduced by one degree correspondingly (press twice, the two degrees will be reduced.) Long press K2 key the temperature is reduced to 80 degrees rapidly.
2. 4) After the setting and adjusting are completed, it will be saved automatically. No operation is required.

▲ Remarks: If user sets password, it can enter the setting of main menu and submenu and adjust the set value of temperature.

2.5)Unlock. Under the situation of turning off, long press K1 and K2 key and turn on the self-locking power switch K3 key. Release K3 key firstly to show "--" and release K1 and K2 keys at the same time, and then set password can be set to set the main menu and submenu and adjust the set value of the temperature.

3) Password function setting  :

Setting method likes the setting of operating temperature. Three-figure password. If password is forgotten during the process of use. Factory setting can be restored. Refer to the restoring of factory setting for the detailed operation.

Note: It takes effect to set and cancel password after turn off again and then restart.


4) Setting of sleeping time  : (the way of setting is the same as that of operating temperature)

Have the sleeping function. Energy-saving. The temperature of the soldering station can be set to reduce to 80 degrees automatically when it is not used during 0~30 minutes.

- 4.1)The sleeping time is 0-30 minutes. The hundreds digit is not set to display. If it enters the sleeping status, the display screen displays S-P.
- 4.2)The sleeping temperature is 80 degrees.
- 4.3)Secondary sleeping displays OFF. The temperature of the secondary sleeping is room temperature.

Note: The secondary sleeping: It is regarded as the secondary sleeping after enter the set time 30 minutes and there is no any operation. It displays OFF. The temperature of the heating core is not increased, it enters the standby status of room temperature. If it needs to be used again, please restart after turn off.

Hint: The introduction of the above dormancy is only for electric soldering iron with the function of sleep. The above operation is not available for the electric soldering without sleep.

5) Setting of temperature compensation  :






The setting way is the same as that of operating temperature. The temperature compensation is ±50 degrees. The hundred digit is shown by using negative symbol. Positive symbol does not display. When the temperature of welding tip has the error with the set temperature, it only needs to adjust compensation. The temperature of welding tip can be corrected.

IV、Fault detection

- 1) Turn on without power and check whether the socket is plugged or not.
- 2) It displays H-E when the machine is power on. It means that temperature sensor has been open-circuited or when the temperature is higher than 500 degrees, it shows H-E or it is the heating core fault. The heating core needs to be replaced.
- 3) Show U – H, said the voltage too high.
- 4) Show U – L, said the voltage too low.

V、Restore the setting of factory

Under the status of power off (the self-locking switch of power is off. It is power off). Long press K2 key, turn the power self-locking switch as ON. Cancel all settings of user and restore the set value of factory. The set value of the factory is as follows:

- 1: Display  icon
- 2: Display the setting temperature as 350 degrees. Do not display  icon.
- 3: Do not display  icon. Sleep off.
- 4: Do not display  icon. The temperature compensation is 0.
- 5: Do not display  icon. It means not to set password function. The set value is 000.



▲ Note: Please turn off power self-locking switch and unplug power cable plug when replace heating core

Welding nozzle

▲ Warning:

- Do not energize without installing iron tip!
- When replace iron tip, please unplug power line to avoid damaging heating core!

1. Welding nozzle using:

Too high temperature will weaken the welding nozzle function, so choose the temperature as low as possible. The welding nozzle of restoring force is good, even under the low temperature it can also fully complete the welding work. What is more, it can protect temperature sensitive elements.

2. Do not use welding nozzle:

When do not use welding nozzle, do not let welding nozzle in high temperature condition for long time. Or you will make the flux of welding nozzle on change to oxide, which will make the heat conduction of welding nozzle weaker.

3. After use welding nozzle:

After the use, should wipe clean the welding nozzle and plate new tin layer on it to prevent the welding nozzle from oxidation.

4. Elding nozzle maintain

Check and clean the welding nozzle:

Note: do not file the oxide on welding nozzle with rasper!

a. The setting temperature at 250°C.

b. After the temperature stability, clean the welding nozzle with cleaning sponge, and check it.

c. If welding nozzle on tin part contains black oxide, plate a new tin layer on the welding nozzle, then use cleaning sponge to wipe welding nozzle. So repetitive operation to remove the oxide and then plate a new tin layer on the welding nozzle.

d. If welding nozzle becomes deformation or serious erosion, must replace the welding nozzle with a new one (Suggest using the original nozzle).

5. Welding nozzle cleaning:

Should periodically clean the weld nozzle with the cleaning sponge (or with a cleaning wet cloth). Because after welding, the residual slag will produce oxide and carbide which can damage the welding nozzle or cause welding error or make the heat conduction of welding nozzle weaker. Long time continuously using welding nozzle, once a week the welding nozzle should be taken apart to clean the residual slag on the surface, so to prevent welding nozzle damaged and reduce temperature.

6. Extend the welding nozzle life:

a. After each finish the welding work, plate a new tin layer on the welding nozzle to prevent welding nozzle from oxidation and extend the using life.

b. Under the condition of normal working please set the temperature as low as possible. Low temperature can reduce welding nozzle oxidation, as well as can easily to weld components.

c. Only in necessary condition to use thin welding nozzle, because of the thin welding nozzle less durable than the coarse one.

d. Don't use welding nozzle as detection tools, because welding nozzle bending will make coating rupture and shorten its service life.

e. Use less active rosin flux, because the high content of active rosin will accelerate welding nozzle coating corrosion.

f. When not using welding nozzle, please turn off its power as far as possible to prolong its service life.

g. Don't butt welding nozzle with great heavy stress, because that is not equal to faster heat.

Removable Accessories

After turning on, if the LED displays "H – E", it meets that the temperature sensor has been on or the temperature is higher than 480 degrees Celsius, or the heater fault and the heater should be replaced.

Pluggable heating core

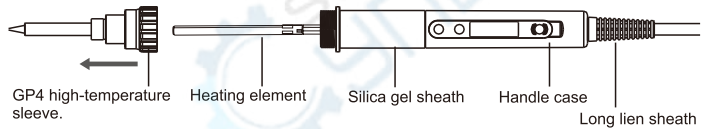
Type	60W	90W	110W
220W	A1326	A1329	A13211
110W	A1316	A1319	A13111



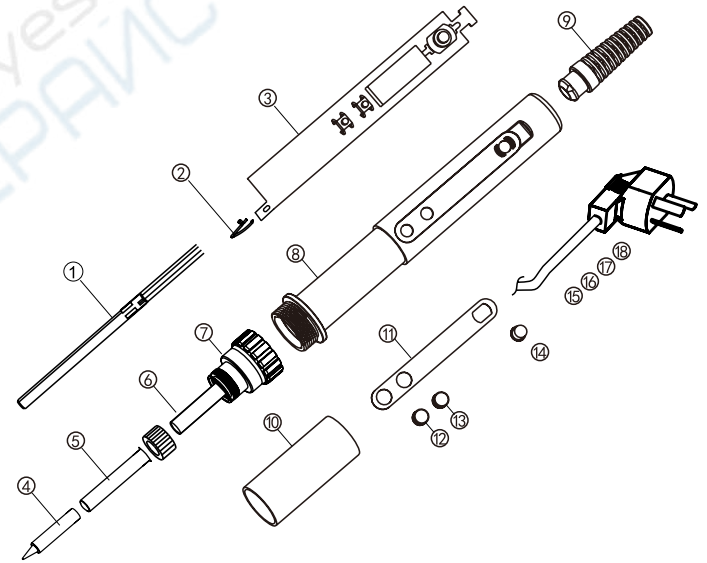
▲ Note: Please turn off power self-locking switch and unplug power cable plug when replace heating core

Replace heating element.

1. Release high-temperature sleeve cap.
2. Take out heating element along the direction of iron tip.
3. Change new heating element and assemble it into original form.



Parts list



Item NO.	Part No.	Part Name	Specifications
①		Heating core	
②	WTH00008	Grounding spring	
③		PCBA Board	Silicon controlled and other parts
④		Iron tip welding tip	900M Series tip
⑤	WGL00023	Protect casing	
⑥	WLM00001	Nut	
⑦	ZTT00004	GP4 high-temperature sleeve.	
⑧	SSJ00238	Handle case	
⑨	SSJ00191	Long line sheath	
⑩		Silica gel sheath	
⑪	SMB00063	Panel	
⑫	SSJ00005	Button 1	
⑬	SSJ00200	Button 3	
⑭	SXN00014	Button power	
⑮	DXC00045	Power cord ,European plug	220V KTL,230V CE
⑯	DXC00008	Power cord ,Chinese plug	China
⑰	DXC00062	Power cord , American plug	
⑱	DXC00073	Power cord , BS plug	230V CE U.K