

Temperature-Controlled Soldering Station ESD-Safe & Thermostatic

OPERATION INSTRUCTION

English

Thank you for purchasing this product. Please read the manual carefully before operating and keep this manual for future reference.

Made in China

Statement: The company reserves the right to improve & upgrade products, product specifications and design are subject to change without notice.

● This product should not be thrown in the garbage. In accordance with the European directive 2012/19/EU, electronic equipment at the end of their life must be collected & returned to an authorized recycling facility. ● Este producto no debe desecharse en la basura. De acuerdo a la directiva europea 2012/19/EU, los equipos electrónicos al final de su vida se deberán recoger y trasladar a una planta de reciclaje autorizada. ● Dieses Produkt sollte nicht mit dem Hausmüll entsorgt werden. In Übereinstimmung mit der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer eingesammelt und einem autorisierten Recyclingbetrieb zugeführt werden.

4. Digital Temperature Calibration

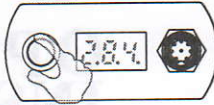
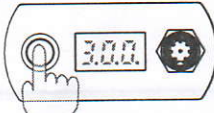
Temperature discrepancies may occur due to the change in the environment's temperature or due to the replacement of the heating element and other components. You can correct the discrepancies with this function. The temperature calibration can help improve work efficiency and prolong the lifespan of the soldering iron.

4-1 Set the temperature value that requires calibration and wait 3-5 minutes for the temperature to stabilize. Once, stabilized, turn OFF the power switch.

4-2 When the station is not turned on, press and hold the temperature adjustment knob and turn ON the power switch at the same time, the display will show the set temperature and three dots.

4-3 Wait for approximately 2 minutes. Turn the temperature adjustment knob to enter the temperature valued measured by a thermometer.

4-4 Once done entering, press the temperature adjustment knob to confirm the entry. The system saves and exits the setting interface-Setting complete.



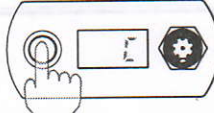
5. °F /°C Conversion

This function allows the station to comply with user preferences in different regions.

5-1 Press and hold the temperature adjustment knob for approximately 2 seconds. The display shows "C", indicating that the station is currently in the Celsius display mode.

5-2 Turn the temperature adjustment knob to select either the Fahrenheit or the Celsius display mode.

5-3 Once done selecting, press the temperature adjustment knob for three times. The system saves and exits the setting interface-Setting complete.



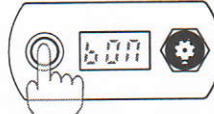
6. Buzzer Prompt

6-1 Press and hold the temperature adjustment knob for approximately 2 seconds. The display shows value "C" or "F".

6-2 Press the temperature adjustment knob once. The display shows value "bON", indicating the buzzer prompt is now on.

6-3 Turn the temperature adjustment knob to turn the buzzer prompt ON or OFF.

6-4 Once done setting, press the temperature adjustment knob twice. The system saves and exits the setting interface-Setting complete.



7. Sleep Mode

This function extends the lifespan of the soldering iron, conserves energy, and protects the environment.

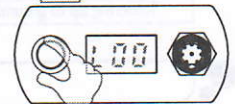
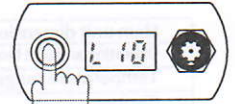
7-1 Press and hold the temperature adjustment knob for approximately 2 seconds. The display shows value "C" or "F".

7-2 Press the temperature adjustment knob twice.

The display shows value "L10" to indicate the timer set to 10 minutes.

7-3 Turn the temperature adjustment knob to set the countdown timer value. The timer can be set to 0/5/10/30 minutes. Set the value to "00" to turn OFF sleep mode.

7-4 Once done setting, press the temperature adjustment knob once. The system saves and exits the setting interface-Setting complete.



8. Automatic Shut-Down

After the soldering station enters sleep mode, its CPU will begin counting down. If the station is not woken (from sleep mode) within approximately 30 minutes, the soldering station will automatically shut off. To restart the soldering station, please turn OFF the power switch, wait for approximately 6 seconds and turn ON the power switch.

Note: The automatic shut-down function is activates ONLY under sleep mode.

9. Preset Channels

Press the temperature adjustment knob to switch between pre-set channels CH1/CH2/CH3. Turn the temperature adjustment knob to set the desired temperature and the system will automatically save the data to the channel you're currently in.

IV. Maintenance & Precautions

1. If a layer of oxidation forms on the surface of the soldering iron tip, a misconception can be created that the soldering tip cannot heat up properly to melt the solder and do the tinning. But the actual temperatures of both the heating element and soldering tip are high. In such an instance, please do not increase the temperature value confusedly but use a metal wool ball to remove the oxidation following the steps below:

A. Set the temperature to 300°C (572°F)

B. Once the temperature has stabilized, gently rub the soldering iron tip inside the metal wool ball.

C. When the oxidation is partially removed, continue applying solder onto the tip while rubbing it until the soldering tip is completely coated with solder. If the tip is too severely oxidized beyond cleaning, replace the heating element.

- DO NOT use metal files to remove the oxidation on the soldering iron tip. If the soldering iron tip deforms or rusts, replace the heating element.
- DO NOT apply excessive force on the soldering tip when soldering. Doing so will not only damage the iron tip but also not improve the heat transfer.
- When placing the soldering iron back in the holder to idle after a high-temperature operation, adjust the temperature to 250°C (482°F) or below for idling. Failure to do so, and leaving the soldering iron tip to idle on a high-temperature setting will cause the accelerated aging of the heating element and shorten the lifespan of the heating element and soldering iron tip.
- After every operation, clean the soldering iron tip, then tin the tip with a new layer of solder to prevent oxidation.

V. Troubleshooting

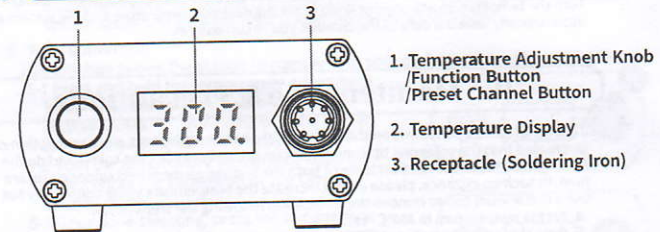
- S-E - This is an indication that the station's sensor module is faulty. You need to replace the heating element (the heating element and the sensor modules).
- SLP - This is an indication that the soldering station is in Sleep Mode.

Main unit dimensions	L142xW94xH50mm \pm 5mm
Operating ambient temperature	0°C~40°C/32°F~104°F
Temperature range	200°C~480°C/392°F~896°F
Display	LED Nixie Tube
Soldering tip to ground resistance	<2 ohms

I. Application

Suitable for soldering and desoldering operations on a broad range of surface-mount, and through-hole components such as SOP, DIP, SOIC and more.

II. Parts List



III. Operations

1. Connect the soldering iron to the station and put the iron into the soldering iron holder.
2. Turn ON the power switch. The soldering station's heating element will begin heating as per normal, and the operation indicator (located at the bottom-right corner of the temperature display) turns ON. The indicator stays ON when heating up, blinks rapidly when the temperature is stabilized, turns OFF when cooling. When the soldering station's operation indicator light blinks rapidly, the soldering iron's temperature has stabilized and the iron is ready to use.

300 Indicator for program tracking temp. at high speed and making temp. compensation.

CAUTION: Upon the first use of the soldering iron, set the temperature to 250°C/482°F. When the iron is just hot enough to melt solder, coat the soldering iron tip with a layer of solder (the use of rosin core solder is recommended), then set the temperature to your desired temperature.

3. When the operation is complete, use a damped sponge or metal wool ball to clean the residues off the soldering iron tip. Tin the soldering iron tip with a new layer of solder again, then put the soldering iron back to the holder. Turn OFF power switch, and DISCONNECT the power cord if the station is not in use for an extended period.