

Pro'sKit®

SS-331

LCD Desoldering Station



User's Manual

1st Edition,

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Description

SS-331 designed for lead free desoldering especially. The quick heating and strong power are for convenient and clear soldering / desoldering all types of DIP components.

Reasonable structure, single hand operation and strong absorbing power can be easy removal of the residual solder from the one-sided or two sided of the PCB.

This tool is used in the fields of electronic research, teaching and production, especially in the repairing and desoldering on the electronic appliances and communication equipments.

1. Control Unit

The desoldering iron gun is controlled automatically by the micro-processor. The digital control electronics and high-quality sensor and heat exchange system guarantee precise temperature control at the soldering tip. The highest degree of temperature precision and optimal dynamic thermal behavior under load conditions is obtained by the quick and accurate recording of the measured values in a closed control circuit, and this design is especially for the lead-free production techniques.

2. Desoldering Iron gun

Desoldering iron gun with a power of 60W (Heat up rating 130W) and a wide spectrum of soldering tips can be used anywhere in the electronics field.

The high power and gun type design make this iron gun suitable for fine desoldering work. The heating element is made of ceramic and the sensor on the desoldering tip can control the desoldering temperature quickly and accurately.

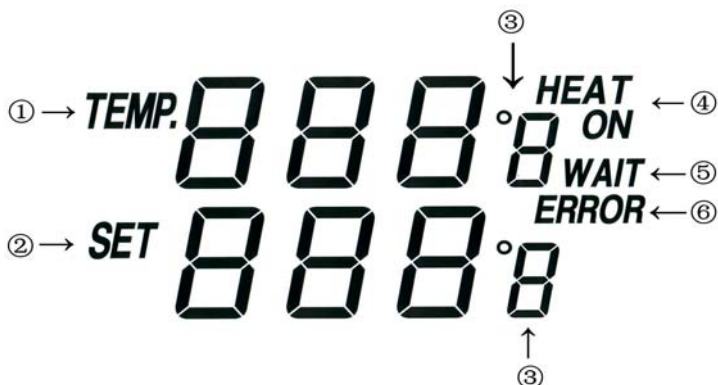
Technical Specification

Voltage	220~240V AC
Power Consumption	140W
Temperature	160°C ~ 480°C
Vacuum Pressure	600mm Hg
Heating Element	Ceramic Heater
Accessories	Spare tip x 3 (Ø 0.8(on the gun)Ø1.0/ Ø 1.3mm) Cleaning tool x 3 (Ø0.7/Ø0.9/Ø 1.2mm) Filter sponge x 4 (φ20.8x1 +φ16.8x3)
Certificate	CE, GS, RoHS
Station Size (mm)	225 x 160 x 130
Weight (kgs)	2.5

Operating Instruction

Caution: Make sure that the four screws which are used to fasten the Diaphragm pump are removed from the control system before use. Otherwise serious damages may be caused to the user and the system.

1. Place the desoldering iron gun in the holder separately. Then connect the plug to the receptacle on the station and turn clockwise to tighten the plug nut. Check that the power supply is corresponding to the specification on the type plate and the power switch is on the "OFF" position. Connect the control unit to the power supply and switch on the power. Then a self-test is carried out in which all display elements are switched on briefly. The electronic system then switches on automatically to the set temperature and displays this value.
2. The display and temperature setting



- ①. Shows the actual temperature of the desoldering tip.
- ②. Shows the setting temperature: Pressing the “UP” or “DOWN” button can switch the digital display to the set point display. The set-point can be changed for $\pm 1^{\circ}\text{C}$ by tapping the “UP” or “DOWN” button. Pressing the button will change the set-point quickly. The digital display will return automatically to the actual value and the iron will reach to the setting temperature quickly.
- ③. $^{\circ}\text{C}/^{\circ}\text{F}$ display: Switching the temperature display from $^{\circ}\text{C}$ to $^{\circ}\text{F}$ by pressing the “ $^{\circ}\text{C}/^{\circ}\text{F}$ ” button and then the electronic system will display the actual temperature① and setting temperature② in $^{\circ}\text{F}$, and vice versa.
- ④. When the actual temperature on the soldering tip is less than the set-point, “HEAT ON” will display and make the desoldering tip heating up.
- ⑤. When the absolute offset is more than $\pm 10^{\circ}\text{C}$ between the actual temperature and the set-point on the soldering tip or the nozzle, “WAIT” will display. It means that the temperature electronic control system is not in the stable situation, we should wait a moment to let the “WAIT” disappear.
- ⑥. When “ERROR” display, there may be a trouble on the

Safety Instruction

1. The manufacturer assumes no liability for uses other than those described in the operating instructions or for unauthorized alterations.
2. The operating instructions and cautions should be read carefully and kept in an easily visible location in the vicinity of the control system. Non-observance of the cautions will result in accidents, injury or risks to health.

Caution

1. The power cord only can be inserted in approved power sockets or adapters.
2. High Temperature

The temperature of the soldering tip will reach as high as around 400°C (752°F) when the power switch is on. Since mishandling may lead to burns and fire, be sure to comply with the following precautions:

- ①. Do not touch metallic parts near the soldering tip/ nozzle.
- ②. Do not use this system near the flammable items.
- ③. Advise other people in the work area that the unit can reach a very high temperature and should be considered potentially dangerous.
- ④. Turn off the power switch while taking breaks and when finishing using.
- ⑤. Before replacing parts or storing the system, turn off the power and let it cool down to the room temperature.
- ⑥. Warning: this tool must be placed on its stand when not in use.

⑦. A fire may result if the appliance is not used with care, therefore:

- 1) Be careful when using the appliance in places where there is combustible material.
- 2) Do not apply to the same place for a long time.
- 3) Do not use in presence of an explosive atmosphere.
- 4) Be aware heat may be conducted to combustible materials that out of sight.
- 5) Place the appliance on its stand after use and allow it to cool down before storage.
- 6) Do not leave the appliance unattended when it is switched on.

3. Take care of your tools

Do not use the tools for any applications other than soldering or desoldering.

Do not rap the iron against the work bench or otherwise subject the iron to severe shocks.

Do not file the soldering tip to remove the oxide, please wipe the tip on the cleaning sponge.

Use only accessories or attachments which are listed in the operation manual. Use of other tools and other accessories can lead to a danger of injury.

Please turn off the power before connecting or disconnecting the soldering iron.

4. Maintenance

Before further use, safety devices or slightly damaged parts must be carefully checked for error-free and intended operation. Inspect moving parts for error-free operation and that they don't bind, or whether any parts are damaged. Damaged safety devices and parts must be repaired or replaced by a qualified technician, so long as nothing else is indicated in the operation manual. Use only accessories or

attachments which are listed in the operation manual. Use of other tools and other accessories can lead to a danger of injury.

5. Keep children at a distance

Warning: this appliance is not intended for use by young children and infirm persons unless they have been adequately supervised by a responsible person to ensure that they can use the appliance safely.

Warning: Young children should be supervised to ensure that they do not play with the appliance.

Unused soldering tools should be stored in a dry location which is out of the reach of children. Switch off all unused soldering tools.

6. Protect yourself against electrical shocks

Avoid touching grounded parts with your body, e.g. pipes, heating radiators and so on. The grip of antistatic designed soldering tool is conductive.

7. Work environment

Do not use the soldering tool in a moist or wet environment. The soldering iron should be placed on the holder after finished using.

8. Observe the valid safety regulations at your work place.

Pro'sKit®

SS-331 數顯吸焊台



概述

SS-331 特別為無鉛吸焊而設計。快速升溫和大功率的特點使其可以方便快速的焊接/拆焊所有類型的 DIP 元器件。

合理的結構，單手操作和強大的吸焊功率能夠輕鬆的從 PCB 一面或兩面除去殘餘錫渣。

目前已廣泛的應用於電子科研，教學以及生產等單位，特別是家電維修和通訊器材維修人員所不可缺少的首選專用工具。

1. 控制單元

吸焊槍由微處理器自動控制。數位控制裝置和高品質的感測器及加熱交換系統保證對烙鐵頭的溫度進行精確的控制。通過快速準確的記錄閉和控制回路測量可以獲得作高的溫度精度和帶負載狀況下最佳熱量轉遞性能，特別適合用於無鉛制程工藝。

2. 吸焊槍 (5SS-331-DG)

吸焊槍的功率為 60W（額定加熱功率 130W），可以配各種尺寸的烙鐵頭（U 系列），廣泛應用於電子領域。

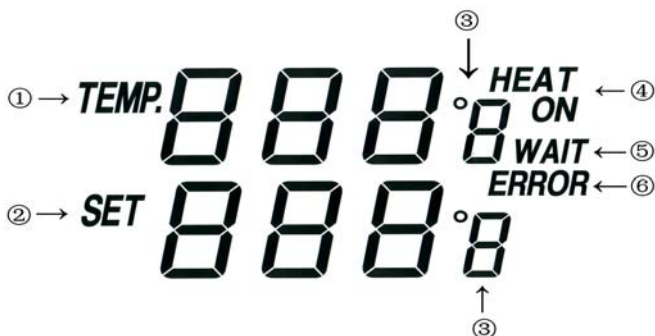
大功率和細長外形設計使這個電烙鐵適合做精密的焊接操作，發熱芯採用陶瓷發熱材料製作，頂端溫度感測器設計其特點在於能夠快速並準確的控制焊接溫度。

技術規範

電壓	220~240V AC
消耗功率	140W
溫度	160°C ~ 480°C
真空吸力	600mm Hg
發熱原件	陶磁發熱芯
配件	吸嘴 x 3(Ø0.8(裝在吸槍上)Ø1.0/ Ø 1.3mm) 通針 x 3(Ø 0.7/ Ø 0.9/ Ø 1.2mm) 過濾棉 x 4 (Ø 20.8mm x1 + Ø 16.8mm x3)
認證	CE, GS, RoHS
尺寸(mm)	225 x 160 x 130
重量(kgs)	2.5

操作說明：

- 1 將吸焊槍放置在支架上。然後將插頭插入插座順時針方向鎖緊螺母。檢查供電電源符合本產品的規格並確認總電源開關處於 **OFF** 的位置。接通控制系統的電源並打開電源開關。系統進行自檢，所有的液晶顯示都暫時被點亮。電子系統自動打開並迅速達到設定的溫度值。
- 2 顯示幕和溫度設置：



數位顯示說明：

- ①. 顯示吸焊烙鐵頭的實際溫度。

- ②. 顯示的是設定溫度，通過按“UP”或“DOWN”鍵來改變設定值。輕壓單下“UP”或“DOWN”鍵設定值將以 $\pm 1^{\circ}\text{C}$ 變化，持續按下“UP”或“DOWN”鍵設定值將會快速改變。改變設定值後，電子系統自動工作，顯示溫度會迅速到達設定值。
- ③. $^{\circ}\text{C}$ 或 $^{\circ}\text{F}$ 溫度，通過按“ $^{\circ}\text{C}/^{\circ}\text{F}$ ”按鈕切換攝氏或華氏溫度，切換後電子系統會自動顯示的攝氏或華氏實際溫度①和設定溫度②數值。
- ④. 當烙鐵頭實際溫度小於設定溫度時顯示“HEAT ON”表示電子系統對烙鐵正在加熱。
- ⑤. 當烙鐵頭實際溫度與設定溫度的絕對偏差大於 $\pm 10^{\circ}\text{C}$ 時顯示“WAIT”，表示電子控溫系統還沒到達穩定狀態，請稍做等待，待“WAIT”不顯示時即可正常使用了。
- ⑥. 顯示“---”則表示系統有故障，或者是電烙鐵沒有正確連接到控制系統。

3 安全操作說明

- 3.1 製造商對於超出操作說明中所到的其他使用或未經授權的更改，不負任何責任。
- 3.2 應仔細閱讀操作說明及警告並將其放置在控制系統附近，如不遵守這些警告，將有可能發生意外事故，人體傷害或健康傷害。

4 警告及注意事項

- 4.1 電源線只能插入經認證過的電源插座或適配器中。
- 4.2 小心高溫:在開機狀態下，烙鐵頭或熱風槍焊嘴的溫度可以達到大約 400°C (752°F) 左右，由於不正確的操作可能會造成燒傷或引起火災，故應確保遵守以下預防措施：
 - 不要讓金屬部件接觸到焊嘴和烙鐵頭；
 - 不要在易燃物品附近使用該系統；
 - 告知工作區域中的其他人員此設備會達到非常高的溫度應注意識別其潛在的危險性；
 - 在休息及使用完後應關閉總電源
 - 在更換零件或儲存前，應關閉總電源並讓其冷卻到

室溫

- **警告：**不用時一定要將此工具放置在特定的支架上。
- 如使用不當可能會引起火災，因此
 - 在有易燃物品的場所使用該設備一定要小心；
 - 不要長時間在同一位置使用該設備；
 - 不要在有爆炸性氣體的場所使用；
 - 要知道熱量有可能會引燃不在視線範圍內的可燃物質；
 - 使用完畢後要將器具放置在特定的支架上，且要在冷卻後方可收藏起來；
 - 離開時必須要關閉電源開關。

4.3 愛護工具

- 不要將此設備用於焊接或脫焊以外的其他操作。
- 不要在工作臺上敲打電烙鐵或熱風筒或其他嚴重的撞擊。
- 不要銼烙鐵頭上的氧化層，請使用浸水的清潔棉擦除氧化層。
- 確保使用操作說明上列明的附件或配件，使用其他的工具或其他配件使本系統損壞或會有受傷的危險。
- 在接通或斷開錫槍前應先關閉電源。

4.4 工具保養

在使用前，應仔細檢查安全裝置或有輕微損害的零件無故障及在指定操作狀態。檢查活動的零件無故障操作，並且沒有繞線及零件損壞。已損壞的安全設備及零件都應由有資格的專業人員進行維修或更換。只使用操作說明中列出的配件。如果使用其他工具或配件有可能對操作人員造成傷害。

4.5 放置在兒童接觸不到的地方

警告：老人和兒童必須在監護人在場確保可安全使用的情況下方可使用該設備。

警告：應確保兒童在沒有監護的情況下無法接觸到該設

備。

- 4.6 不用的焊接工具應存放在乾燥的，兒童接觸不到的地方。而且應該關閉所有未在使用狀態下的焊接工具的電源。
- 4.7 避免遭受電擊
避免用身體接觸接地零件，如：烙鐵管，散熱器等。抗靜電設計的焊接工具的把手是導電的。
- 4.8 工作環境
不要在潮濕的環境中使用焊接工具。電烙鐵及熱風槍用完後要放回到支架上。
- 4.9 遵守工作場所中的安全操作規定。

Pro'sKit®

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