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› [SEQURE MSS12 Pro 70W Digital Soldering Iron Station Kit User Manual](#)

SEQURE MSS12 Pro

SEQURE MSS12 Pro 70W Digital Soldering Iron Station Kit

Model: MSS12 Pro | Brand: SEQUIRE

INTRODUCTION

This instruction manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your SEQUIRE MSS12 Pro 70W Digital Soldering Iron Station Kit. This advanced soldering station features rapid heating, precise temperature control, and multiple power input options, making it suitable for various electronic and welding applications.

SAFETY INFORMATION

- Always wear appropriate personal protective equipment, including safety glasses, when operating the soldering iron.
- Ensure adequate ventilation in your workspace to avoid inhaling solder fumes.
- The soldering iron tip reaches very high temperatures. Avoid direct contact with skin or flammable materials.
- Place the soldering iron in its stand when not in use to prevent accidental burns or damage.
- Do not use the soldering iron near liquids or in damp conditions.
- Unplug the unit from the power source when not in use or before performing any maintenance.
- Keep out of reach of children.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x SEQUIRE MSS12 Pro Soldering Station Unit
- 1 x Soldering Iron Handle
- 4 x T12 Soldering Iron Tips
- 1 x Solder Iron Holder
- 1 x AC Power Supply Cord
- 1 x Storage Bag
- 1 x Instruction Manual (this document)



Figure 1: Complete SEURE MSS12 Pro Soldering Iron Station Kit with all included components.

SETUP

1. **Insert Soldering Tip:** Gently push one of the T12 soldering iron tips into the end of the soldering iron handle until it is firmly seated.

Your browser does not support the video tag.

Video 1: Unboxing and initial setup of the SEURE MSS12 Pro Soldering Station, showing how to connect components and power on the device.

2. **Connect Soldering Handle:** Connect the cable from the soldering iron handle to the "Tip" port on the front of the MSS12 Pro control unit. Ensure the connection is secure.

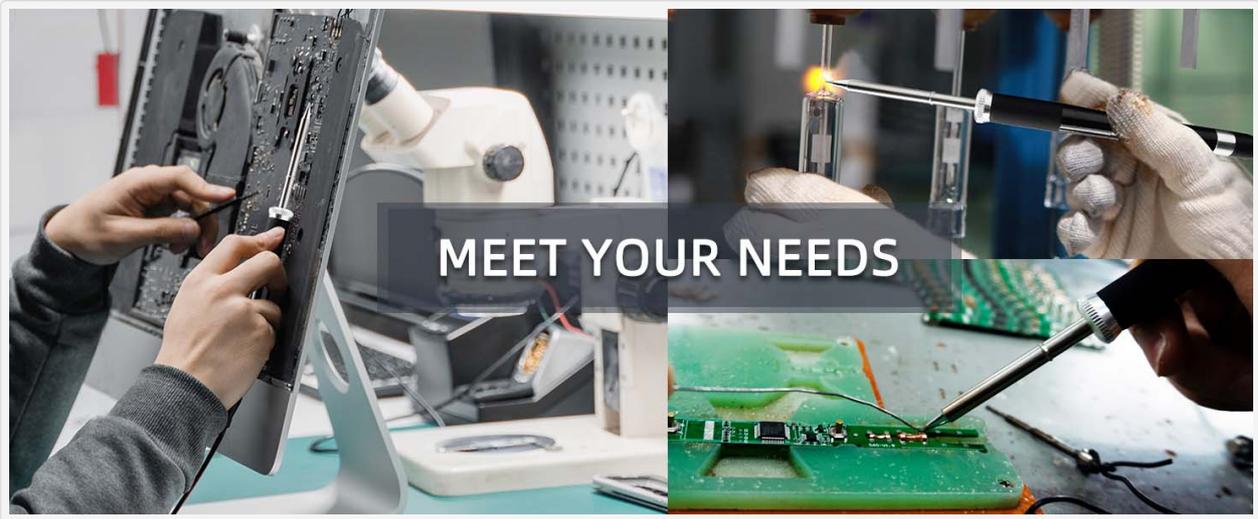


Figure 2: Detailed view of the MSS12 Pro unit, highlighting the handle interface, LCD screen, and function knob.

3. Connect Power Supply:

The MSS12 Pro supports multiple power input options:

- **AC Power:** Connect the provided AC power supply cord to the "AC 100-240V" port on the back of the unit, then plug it into a standard wall outlet.
- **DC Power:** Connect a DC12V-25V power supply to the DC input port.
- **PD2.0/3.0, QC2.0/3.0:** Use a compatible USB-C power delivery or quick charge adapter.
- **3S-6S Lipo Battery:** Connect a compatible Lipo battery to the XT60 interface.

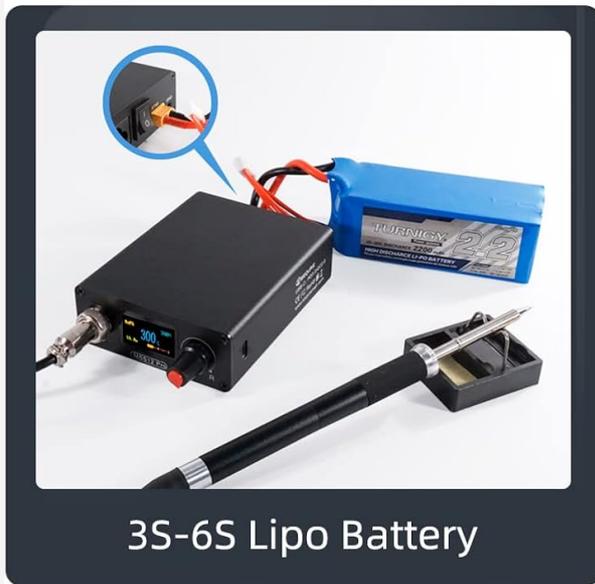


Figure 3: The MSS12 Pro's versatility in power input, supporting various sources for both indoor and outdoor use.

4. **Power On:** Flip the power switch on the back of the unit to the "ON" position. The LCD screen will illuminate.

OPERATING INSTRUCTIONS

Temperature Adjustment

The MSS12 Pro features a flexible knob for easy temperature setting and adjustment. The temperature range is 100°C-450°C / 212°F-842°F.

- **Adjusting Temperature:** Rotate the function knob (red knob) clockwise to increase temperature and counter-clockwise to decrease it. The current temperature will be displayed on the LCD screen.
- **°C / °F Conversion:** The unit supports switching between Celsius and Fahrenheit. Refer to the on-screen menu (accessed by pressing the knob) for this setting.

°C/°F Switching CONSTANT TEMPERATURE



Figure 4: The LCD screen displaying temperature in both Celsius and Fahrenheit, demonstrating the easy conversion feature.

PID PRECISION TEMPERATURE CONTROL SYSTEM



70W Fast Heating

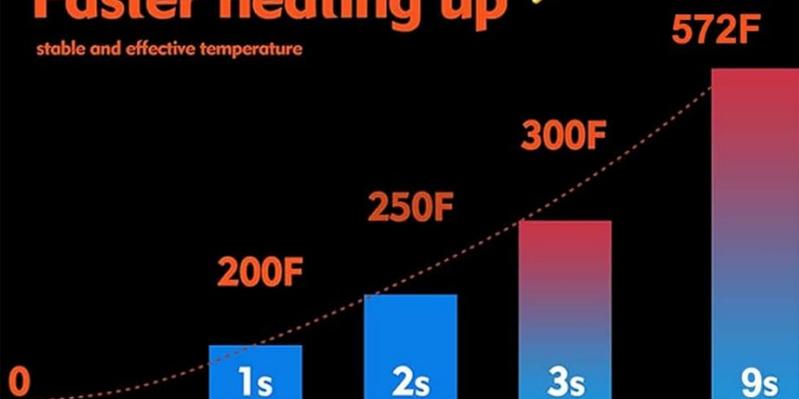


Adjustable Temperature

100°C-450°C / 212°F-842°F

Faster heating up

stable and effective temperature



572°F

Figure 5: The MSS12 Pro's PID precision temperature control system ensures rapid heating and stable temperatures.

Auto Sleep & Standby

To prolong the life of the soldering iron tip and the station, the unit features intelligent sleep and standby modes:

- **Sleep Mode:** The station enters sleep mode when not used for a set duration (e.g., 3 minutes of inactivity), reducing the tip temperature to 200°C/392°F.
- **Standby Mode:** After a longer period of inactivity (e.g., 6 minutes after entering sleep mode), the unit will enter standby mode.
- To exit sleep or standby, simply pick up the soldering iron or rotate the knob.

AUTO SLEEP & AUTO STANDBY



Sleep Mode

After 3 Min of Inactivity
Temp is 200°C/392°F



Standby Mode

6 Min After Sleep Mode



Figure 6: Explanation of the auto sleep and standby modes, designed to conserve tip life and energy.

Calibration

The MSS12 Pro supports fast temperature compensation and auto-calibration for precise temperature accuracy. This feature can be accessed and adjusted through the unit's menu system using the function knob.

General Soldering Tips

- Ensure the soldering tip is clean and tinned before each use.
- Apply a small amount of solder to the tip to improve heat transfer.
- Heat both the component lead and the PCB pad simultaneously before applying solder.
- Remove the soldering iron before removing the solder.

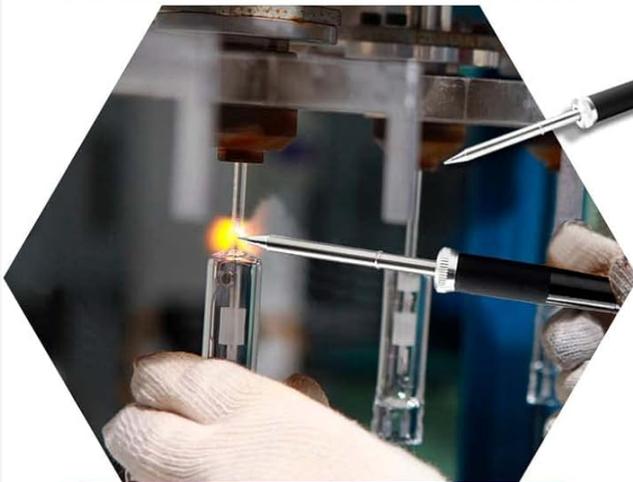
WIDE APPLICATION



Industry & Manufacturing



Laboratory



Welding Training



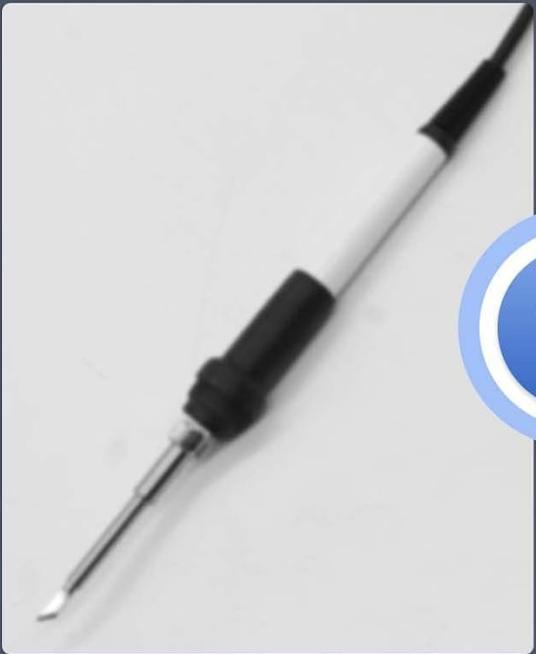
Household & Hobby Use

Figure 7: The MSS12 Pro is suitable for a wide range of applications, from professional industry use to hobbyist projects.

MAINTENANCE

- **Tip Cleaning:** Regularly clean the soldering tip using a damp sponge or brass wool to remove excess solder and oxidation. A clean tip ensures efficient heat transfer.
- **Tip Tinning:** After cleaning, always tin the tip with a small amount of fresh solder to prevent oxidation and extend its lifespan.
- **Tip Replacement:** If a tip becomes heavily oxidized, pitted, or no longer heats effectively, replace it with a new T12 series tip.
- **General Cleaning:** Keep the control unit and soldering handle clean and free of dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the soldering station and its components in the provided storage bag in a dry, cool place.

Handle material comparison



Other

Plastic handle, rough workmanship and poor heat dissipation



MSS12 Pro

Aluminum alloy handle, durable and comfortable

Figure 8: The durable aluminum alloy handle of the MSS12 Pro is designed for comfort and longevity, aiding in maintenance and overall product life.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Soldering iron not heating up.	Power cord not connected, power switch off, faulty tip, or internal issue.	Check power connections. Ensure power switch is ON. Try a different soldering tip. If problem persists, contact support.
Tip not registering with unit.	Tip not fully inserted, or tip is faulty.	Ensure the tip is fully and securely inserted into the handle. Try a different tip.
Temperature unstable or inaccurate.	Tip oxidation, incorrect calibration, or environmental factors.	Clean and tin the tip. Perform auto-calibration via the unit's menu. Ensure stable power supply.
Unit enters sleep/standby too quickly.	Sleep/standby settings are too short.	Adjust the sleep/standby duration settings in the unit's menu.

SPECIFICATIONS

Feature	Detail
Model	MSS12 Pro
Wattage	70W
Temperature Range	100°C-450°C / 212°F-842°F
Temperature Stability	±1%
Display Type	LCD
Power Source	AC100-240V, PD2.0/3.0, QC2.0/3.0, DC12V-25V, 3S-6S Lipo battery
Material	Aluminum (handle)
Item Weight	9.1 ounces (approx. 258g)
Product Dimensions	3.94 x 3.15 x 1.18 inches (approx. 10 x 8 x 3 cm)
Country of Origin	China



Figure 9: Performance specifications based on input voltage for the MSS12 Pro.

WARRANTY AND SUPPORT

SEQURE offers a 90-day warranty for the MSS12 Pro Soldering Iron Station Kit. Lifetime professional customer support is also provided. For any questions, suggestions, or technical assistance, please contact SEQURE customer service through the vendor's official channels or the platform where the product was purchased.

For more information, you may visit the [SEQURE Store on Amazon](#).