

Technical Data

Model:	MP740131- I
Voltage	110V±10% 60Hz Optional
Power	1000W (Max)
Fuse type	T12A(110V AC)
Temperature range:	100°C ~ 480°C/ 212°F ~ 896°F
Setting range of air volume	1%~99%
Temperature unit	°C/°F (default °C)
Air flow	20~130L/min
Standby heater cooling function	Support
Abnormal detection of heating element	Heating element remove detection; heating element open circuit detection; heating element overheating detection
Abnormal detection of temperature sensor	Temperature sensor open circuit detection
Beep alarm function	Available
Quick function	3 sets shortcut temperatures
Temperature compensation	±50°C/±90°F
Heating status display	5 dynamic simulate bars
Temperature adjustment	10 digits (Coarse)/1 digit (Fine-tuning)
Air flow adjustment	2 digits (Coarse)/1 digit (Fine-tuning)
Shortcut temperature/air flow	3 sets shortcut temperatures/air flow for quick selection
Working conditions	Temperature 0-40°C, relative humidity <80%
Storage conditions	Temperature -20-80°C, relative humidity <80%
Dimension	208(L)x175(W)x150(H)mm
Weight	3340g Approx

multicomp^{PRO}



MODEL: MP740131- I
Hot Air Station



INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.

When this product has reached the end of its life it must be treated as Waste Electrical & Electronics Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Contact your local authority for details of recycling schemes in your area.



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Error information

Fault code or fault description	Likely causes of the faults and solution
E2: Open circuit of sensor	Poor contact of air gun connector or handle, please change heater
	The zero-cross circuit is damaged, please return to factory repair
E7: Short circuit of sensor	The short circuit occurs to the temperature sensor in the heating core; or heating core open circuit. please replace the heating core.
E8: Over-temperature protection	1. The temperature sensor is abnormal; please replace the heating core. 2. The temperature of heating core is too high; after the heating core is cool, restart the machine.
E10: Heater overheating	solution : return to factory maintenance
E11: Fan broken	solution : return to factory maintenance
E13: The heating output switch component was failed	The heating output switch component was failed, the component has been broken by short circuit, please return to factory repair.
Display of messy code:	1. In case there is strong interference source from the outside environment, please change the application environment or evacuate from the interference area. 2. In case the internal circuit is abnormal, please send the equipment to the designated after-sales outlet for maintenance.

Please read these instructions carefully before use and retain for future reference.

IMPORTANT SAFETY INFORMATION

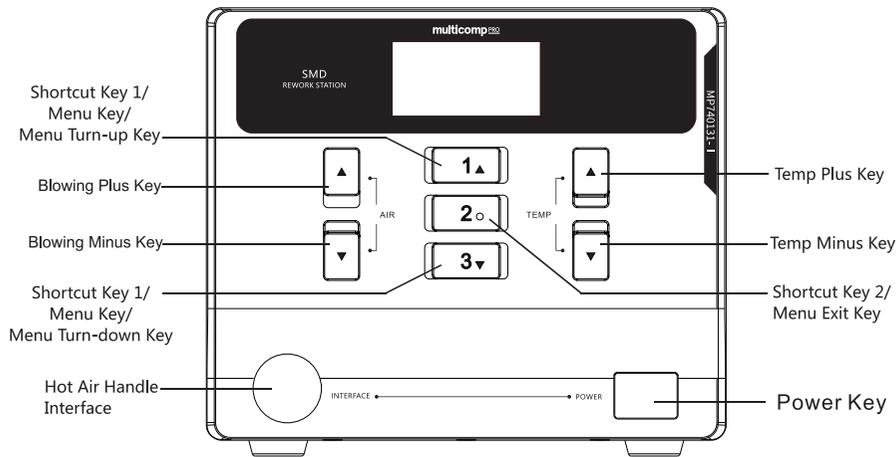
When using electrical appliances basic safety precautions should always be followed.

- Check that the voltage indicated on the rating plate corresponds with that of the local network before connecting the appliance to the mains power supply.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Do not leave the hot air station unattended, while it is powered on.
- Never touch the hot air gun or the surrounding metallic parts before the hot air gun has cooled down completely.
- Do not use the product near flammable items.
- Turn the power off when this product is not in use.
- The hot air station must be placed on its stand when not in use.
- Before storage, turn the power off and allow the product to cool down to room temperature.
- Do not use this product for anything else other than that for which it is designed.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not use this appliance with wet hands.
- Do not expose the hot air station to rain or moisture.
- Ensure there is sufficient space and ventilation around the appliance to allow the escape of heat and/or fumes.
- This appliance must be earthed.

WHAT'S INCLUDED?

- Hot air station
- Hot air gun holder
- Spray nozzles
- Power cord
- Ground wire
- Manual

Overview



6. Button Beeping Function

Under menu BL mode, user can turn on/ off the beeping function by pressing “▲” or “▼” key. Refer Pic.1-16, OFF disable beeping function; Refer Pic.1-17, ON enables beeping function.

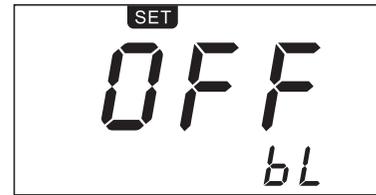


FIG. 1-16

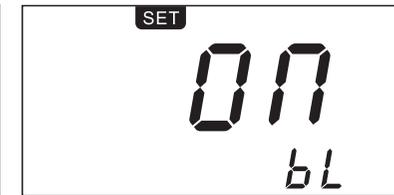


FIG. 1-17

7. Defining Work Function

Under menu HTO mode, it can adjust time of defining work by pressing “▲” or “▼” key (FIG. 1-18, the time of defining work is 20 seconds, “0” means turn off defining work function, the minimum setting time for defining work is 10 seconds, maximum setting time is 900 seconds.); it can turn up or down menu by pressing Button “1” or “3”, then press Button “2” to exit and save your setting.



FIG. 1-18



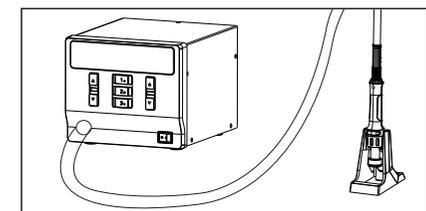
FIG. 1-19

8. Standby Function

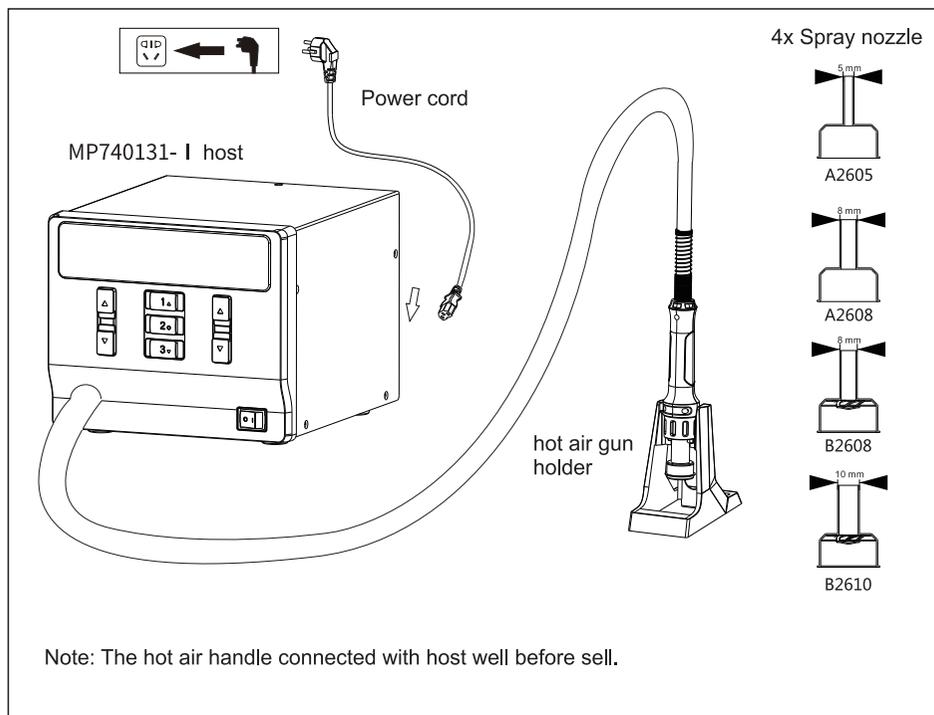
Under Menu STBY, that press button can adjust standby function. (Pic.1-20) When standby function is off, it can adjust the time (time can be set from 1 to 10mins) when this machine can enter into standby. When standby function is on, this handle can be shut off automatically when putting it into this holder after used, it will recover to work after taking this handle out if within standby time, if beyond the standby time, it don't work until pressing the button in this holder after taking this handle out. (Note: If both timing function and standby function are on simultaneously, timing function will be recount time when the hot air gun working.)



FIG. 1-20



Connection Diagram for the Whole Equipment



4. Restore Factory Setting

In FAC menu ,press “▲”and“▼”keys to adjust ON/OFF. Press the [2] key when the menu is ON, then return to the normal operation interface to restore factory setting.

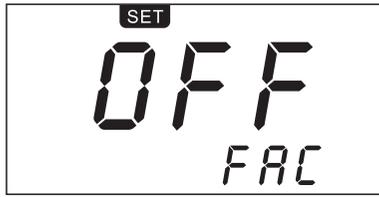


FIG. 1-12

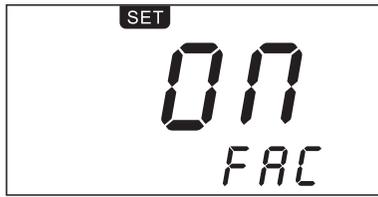


FIG. 1-13

Default value :

- | | |
|-------------------------------------------|------------------------------|
| Loc (temperature locked function) : OFF | Memory temperature 1 : 200°C |
| CAL (calibration value) : cleared | Memory temperature 2 : 300°C |
| BL (Beeping function) : ON | Memory temperature3 : 400°C |
| F-C(temperature unit) : °C | |
| HTO(Timing operation) : OFF | |

5. Temperature Calibration

Under menu CAL mode, press “▲” or “▼” key to enable temperature calibration function, whose calibration range is -50°C~ 50°C(-90°F~90°F). Calibration value will be negative as actual-measured temperature is lower than setting temperature; Calibration value will be positive as actual-measured temperature is higher than setting temperature.



FIG. 1-14

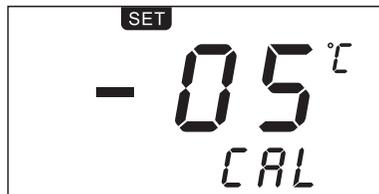
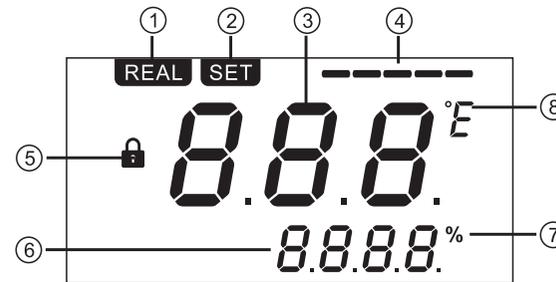


FIG. 1-15

Note: User need calibrate temperature by adjusting its value if the displayed temperature is much different with actual-measured temperature after changing a new heater or tips, its calibration method be refered as below:
 1.Set this handle required calibration as a suitable temperature like 350°C/ 662°F;
 2.After this setting temperature is stable, use temperature tester to measure the actual temperature of its tip, for example, its actual-measured temperature is 365°C/ 689°F;
 3.We can get conclusion that the actual-measured temperature compared to the setting temperature is 15°C/ 27°F higher;
 4.Then press “▲” key to calibrate temperature.

LCD Description



1. REAL : Real Temperature status
2. SET : Start up and set temperature status
3. Actual temperature value
4. Display bar for heating power status
5. Symbol for lock
6. Display settings value
7. Air flow percentage
8. Temperature unit

Settings

1. Normal display

(FIG. 1-1) shows real temperature is 300°C, the temperature setting value is locked, the air volume is 50% and the heating power value is 3 bars.

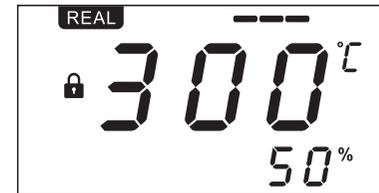


FIG. 1-1

2. Display Of Hot Air Gun Status

(FIG. 1-2) shows when the air gun is off (non-power). The setting value can be adjusted when the hot air gun is off. When the hot air gun is on, it will work according to the setting value.(FIG. 1-3) When the handle of the air gun is placed on the holder, the hot air gun will automatically stop heating and delay air supply, (the air supply will stop after the heating wire cools). Pick up the handle again and press the switch key on the handle, it will resume to work.

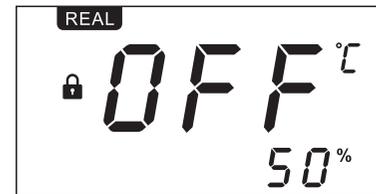


FIG. 1-2

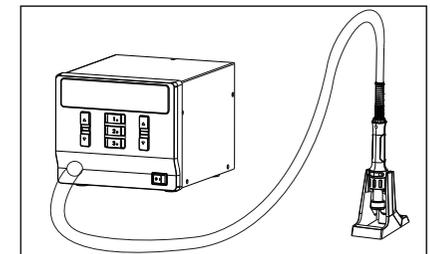


FIG. 1-3

Temperature/Air Flow Setting

1. Adjust the air volume: Press air "▲" or "▼" key (see FIG 1-4). Long press for quickly adjusting. Stop pressing the key for 3 seconds, it will save the setting automatically.
2. Adjust temperature value (when temperature value is locked, it can not be adjusted): Press temperature "▲" or "▼" key, switch to SET status (see figure 1-5). Long press for quickly adjusting, stop pressing the key for 3 seconds, it will automatically save temperature setting, and state switch to REAL.

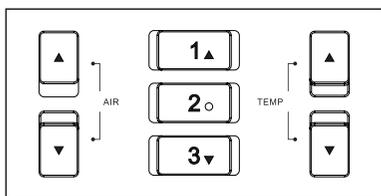


FIG. 1-4

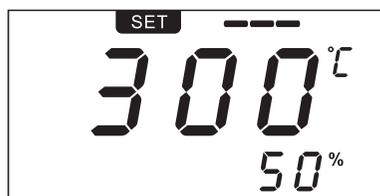
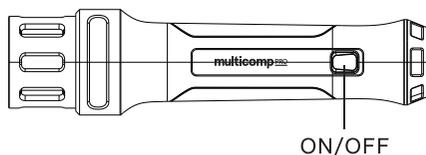


FIG. 1-5

3. The handle can't work until press the button in the handle under power on for this machine. That shortly press the button in the handle can turn on/ off this handle, that long press this handle for 3 seconds can switch into cool/ hot air flow.



Saving and Retrieving Shortcut Temperature(User define)

1. Retrieving shortcut temperature: It can rapidly retrieving preset temperature and blowing restored in Button "1" / "2" / "3" by pressing Button "1" / "2" / "3" .(FIG. 1-6) when working.
2. Saving shortcut temperature: It can save the user-define temperature and blowing in Button "1" / "2" / "3" by pressing Button "1" / "2" / "3" more than 2 seconds.

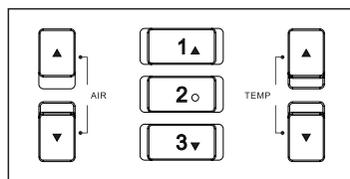


FIG. 1-6

Menu Mode

Enter into menu mode by pressing both Button "1" and "3" more than 3 seconds under working status.

1. Button Definition under Menu Setting Mode

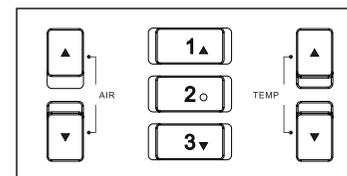


FIG. 1-7

Button "1": Menu page up
 Button "2" : Menu exit
 Button "3" : Menu page down
 Parameter plus
 Parameter minus

2. Temperature Locking Function

Under Menu Loc, it can turn on or turn off temperature locking function by pressing "▲" or "▼" key (FIG. 1-8, ON means turn on temperature lock function, OFF means turn off temperature locking function); it can turn up or down menu by pressing Button "1" or "3" , then press Button "2" to exit and save your setting.



FIG. 1-8



FIG. 1-9

3. Switching Temperature Unit

Under menu C-F mode, it can switch temperature units(°C & °F) by pressing "▲"or"▼"key. Refer Pic.1-10, set -C- which means temperature unit is °C; Refer Pic. 1-11, set -F- which means temperature unit is °F.

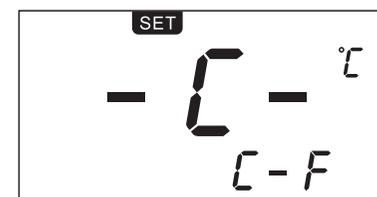


FIG. 1-10

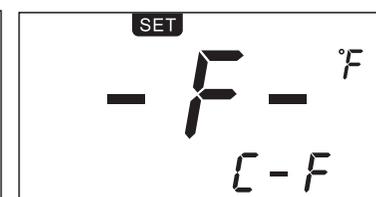


FIG. 1-11



Model: MP740131-II
Power supply

Product Introduction

This power supply is designed for the needs of electronic training schools, communication maintenance technicians and related engineering research and development personnel. The current best-stability series voltage stabilization scheme is adopted for this product, and the digital MCU chip is used for control. With very high stability and low ripple, simple operation and control, and complete protection functions, it provide the user with convenient and reliable high quality power supply.

Product Specification

Power input: refer to the voltage identification at the tail of the product (other input voltage can be customized).

Rated value/dimensions/weight:

Model	Voltage Regulation Range	Current Regulation Range	Input Power	Weight
MP740131-II	0-5V/0-15V	0-0.5A/0-3A	124VA	2.4Kg
Dimensions : (L) 215mm *(W) 88mm *(H)150mm				

Protection function: overvoltage protection/overcurrent protection (cut-off mode, delay start)/overheat protection.

Other functions: locking function, voltage coarse/fine adjustment, sound function, 5V/15V voltage switching, 0.5A/3A current switching.

Cooling mode: temperature controlled fan, forced air cooling.

Operating environment: 0°C~40°C, <80% (indoor use).

Storage temperature and humidity: -10°C~70°C, <70%.

Technical Parameters

Constant Voltage mode (CV):

Output voltage range: 0 to rated voltage continuously adjustable.

Power supply variation rate: $\leq 0.01\%+3mV$.

Load variation rate: $\leq 0.01\%+3mV$ (rated current $\leq 3A$).

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IMPORTANT SAFETY INFORMATION

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- Check that the voltage indicated on the rating plate corresponds with that of the local network before connecting the appliance to the mains power supply.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Do not leave the power supply unattended, while it is powered on.
- Do not use the product near flammable items.
- Turn the power off when this product is not in use.
- Before storage, turn the power off and allow the product to cool down to room temperature.
- Do not use this product for anything else other than that for which it is designed.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not use this appliance with wet hands.
- Do not expose the power supply to rain or moisture.
- Ensure there is sufficient space and ventilation around the appliance to allow the escape of heat and/or fumes.
- This appliance must be earthed.

WHAT'S INCLUDED?

- Control Station
- Mians Lead
- User Manual

2

Recovery time: $\leq 120 \mu s$ (50% load variation, minimum load of 0.5A).
Ripple and noise: $\leq 0.5mVrms$ (5Hz~1MHz) (rated current $\leq 1A$).
Ripple and noise: $\leq 1.0mVrms$ (5Hz~1MHz) (rated current $>1A$).
Temperature coefficient: $\leq 300ppm/^{\circ}C$

Read-back display:

Display: double 3-bit LCD with blue background and white words (main voltage and USB current display)

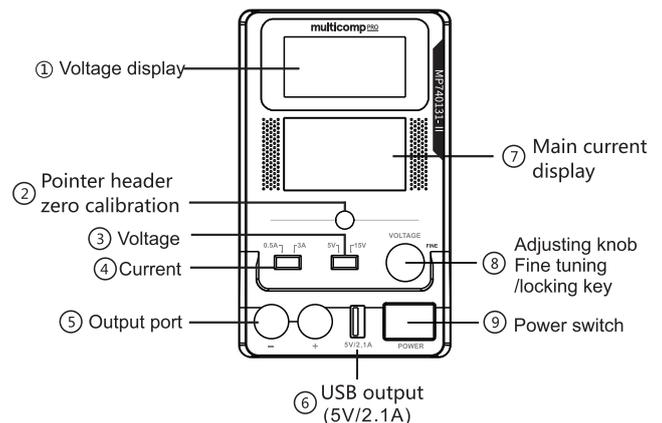
Accuracy: LCD header: $\pm(0.5\% \text{ reading} + 2 \text{ bits})$;
current pointer header: CLASS-2.5

USB interface parameters:

Voltage: fixed 5V output ($\pm 5\%$ accuracy)

Current: maximum 2.1A (overcurrent protection, cut-off output)

Product Panel Diagram



Operating Instructions

1. Precautions before use

AC power input: AC power input shall be within the range of rated voltage $\pm 10\%$ 50/60Hz.

 Warning: the protective conductor of the power line must be earthed to avoid electric shock.

Instrument installation: Avoid using this power supply in the environment above 40°C. Reserve enough space for heat emission holes on the rear panel to dissipate heat.

 Notice: To avoid damage to the instrument, do not operate it in the environment above 40°C.

2. Output voltage regulation

1. Turn on the power switch to make the product work normally.
2. Adjust the knob to the right to increase the output voltage value.
3. Adjust the knob to the left to reduce the output voltage value.
4. Press the adjusting knob forward to change fine/coarse adjustment status.
5. Conduct step adjustment at 0.01V in the in the fine adjustment state and 0.1V in the fine adjustment state.

3. Output current regulation

1. When the current switch is switched to the position 0.5A, the host can provide the current output capacity of 0.5A.
2. When the actual output current exceeds 0.6A at the position 0.5A, the power supply will automatically conduct overrange protection. At this time, the power supply will temporarily shut off the output for about 2S and make a buzzing alarm to prompt the user to switch positions.
3. When the current switch is switched to the position 3A, the host can provide the current output capacity of 3A.
4. When the actual output current exceeds 3.2A at the position 3A, the power supply will automatically conduct overrun protection. At this time, the power supply will temporarily shut off the output for about 2S and make a buzzing alarm to prompt the user to remove the load.

4. Voltage range setting

1. When the voltage is switched to the position 5V, the host provides the maximum limited voltage output of about 5.1V.
2. When the voltage is switched to the position 5V, the host provides the maximum limited voltage output of about 15.5V.

5. Parameter locking operation

1. Under normal working conditions, long press the knob for about 3S to lock the voltage output parameters.
2. In the locking state, the locking icon will be displayed on the LCD. At this time, the adjusting knob is inactive.
3. Long press the knob again for about 3S to release the parameter locking. At this time, the voltage can be adjusted normally.

6. Sound ON/OFF

1. Turn on the power switch to turn on/off the sound function while pressing the knob.
2. When the sound function is turned off, the alarm sound will also be heard if the current exceeds the range.



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Specifications

Product No	MP740131-III
Rated working voltage	110V ± 10% 60Hz
Rated power	65W
Security Level	Class 1(Host of the controller)Class 3(Accessories of soldering handle)
Power fuse	T2A(110VAC)
Temperature range	80°C~450°C/176°F~842°F
Temperature stability	±1°C
Temperature adjustment step	Long press to adjust 10 units at a time, short press to adjust 1 unit at a time
Standby mode	0~60 minutes can be set up, default 10 minutes, turn on the standby function
Dormancy mode	0~60 minutes can be set up, default 10 minutes, turn on the auto-sleep function
Rapid temperature	3 groups of temperature, which can be called quickly.
Working conditions	Temperature 0°C ~ 40°C Relative humidity < 80%
Storage conditions	Temperature -20°C ~ 80°C Relative humidity < 80%
Dimension	(L)210x(W)88x(H)150mm
Weight	2kg Approx

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**Model: MP740131-III
Soldering Station**



INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.

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Maintenance

(diagram 1-25) Display S-E is a sensor fault, (diagram 1-26) display H-E is a heater core fault.

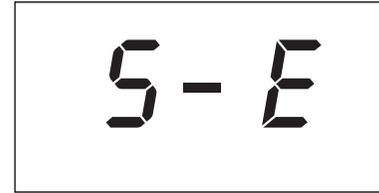


diagram 1-25



diagram 1-26

8. Alarm temperature settings

Under the H-L menu, press “▲” and “▼” button to set the upper/lower temperature values and OFF. (diagram 1-19) It will alarm if upper temperature more than 20 °C and the lower temperature less than -20 °C. (diagram 1-20) alarm function is OFF. The upper and lower temperature rang is 20 to 80 °C.



diagram 1-19



diagram 1-20

9. Password setting function

Under the PSD menu, press “▲” and “▼” button to adjust the password setting value. The password value can be set from “01” to “999”. (diagram 1-21) Display 00 means the password function is off, (diagram 1-22) to enter the menu interface. The first time you enter the password is not set, press 2 button to enter the menu mode, then set the password and press 2 button to confirm the menu.
(Note: Directly enter password 906 to enter the menu interface in case of forgetting the password)



diagram 1-21

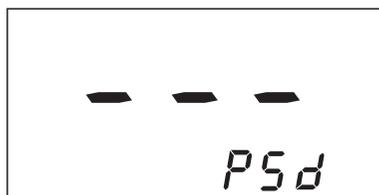


diagram 1-22

10. Restore factory setting

Under the FAC menu, press “▲” and “▼” to adjust ON and OFF. Press [2] to return the normal operation interface and restore the factory setting when the menu is ON.

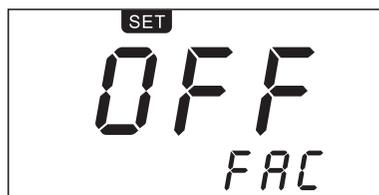


diagram 1-23



diagram 1-24

Factory default : Loc (Temperature lock) : OFF
CAL(Temperature calibration) : Reset
SLP (Auto-sleep) : Open (10)
OFF (Off heating) : Open (20)
H-L (Alarm temperature) : 20°C
BI (Alarm) : Open

C-F (Temperature unit) : °C
PSD (Password) : 00
Memory temp.1 : 200°C
Memory temp.2 : 300°C
Memory temp.3 : 400°C

Please read these instructions carefully before use and retain for future reference.

IMPORTANT SAFETY INFORMATION

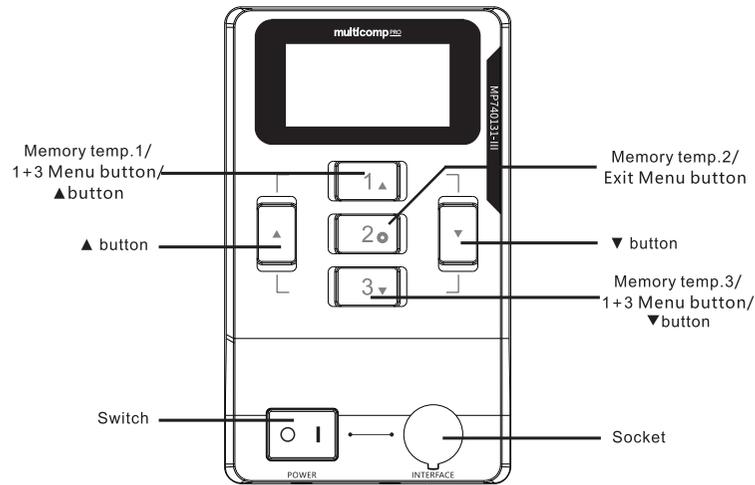
When using electrical appliances basic safety precautions should always be followed.

- Check that the voltage indicated on the rating plate corresponds with that of the local network before connecting the appliance to the mains power supply.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Do not leave the soldering station unattended, while it is powered on.
- Never touch the soldering tip or the surrounding metallic parts before the soldering tip has cooled down completely.
- Do not use the product near flammable items.
- Turn the power off when this product is not in use.
- The soldering iron must be placed on its stand when not in use.
- Before storage, turn the power off and allow the product to cool down to room temperature.
- Do not use this product for anything else other than that for which it is designed.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not use this appliance with wet hands.
- Do not expose the soldering station to rain or moisture.
- Ensure there is sufficient space and ventilation around the appliance to allow the escape of heat and/or fumes.
- This appliance must be earthed.

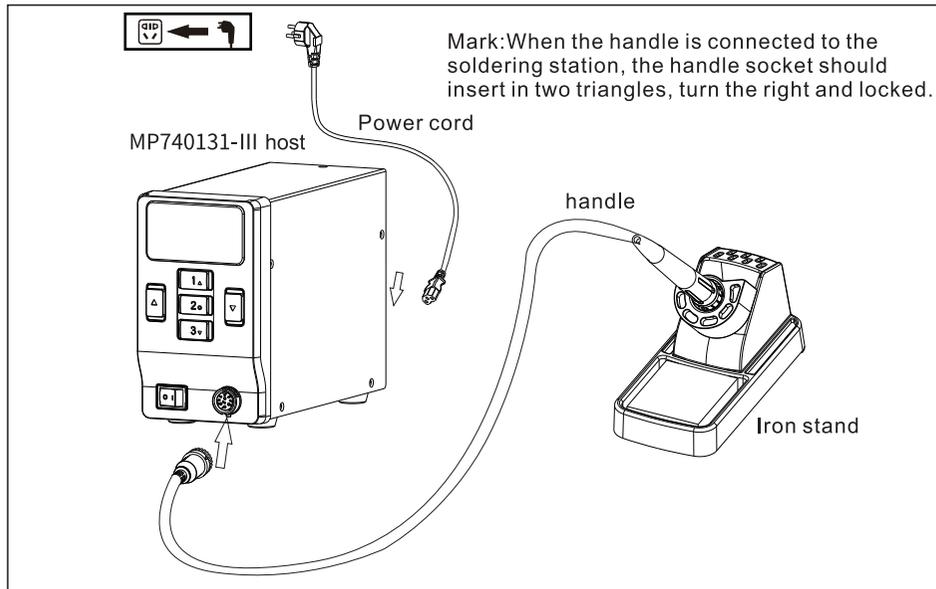
WHAT'S INCLUDED?

- Control Station
- Soldering Iron
- Iron Holder with tip cleaner
- Mains Lead
- User Manual

OVERVIEW



Connect diagram



5. Auto-sleep function

Under the SLP menu, press “▲” and “▼” to set the sleep parameters: Off/On Time: 10~60 (default 10) minutes. the heater temperature is 200 °C under sleep status. (diagram 1-14) open the auto sleep function, and the sleep time is 25 minutes. (diagram 1-15) turn off the auto sleep function. In sleep mode, pick up the soldering tool or press any key to automatically resume normal operation. (Note: If the device is not in a static state, it will affect the device to enter auto sleep)

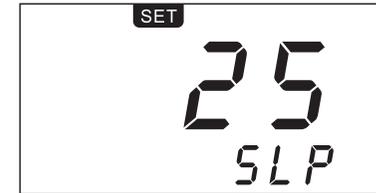


diagram 1-14



diagram 1-15

6. Automatically power off the heating function

Note: The auto power off function needs to be used when the auto sleep function is turned on. When the auto sleep function is turned off, the auto power off function is turned off at the same time. The auto power off function cannot be turned off when the auto sleep function is turned on. Under the OFF menu, press “▲” and “▼” button can be set the heating time : 10~60 (default 20) minutes. When the heating state is turned off, pressing any button will automatically resume the normal working mode.

Example: The sleep time is 10, and the heating time is 20. The total time is 30 minutes. After heating is turned off, the heating core is not heated.



diagram 1-16

7. Alarm setting function switch

Under the BL menu, press “▲” and “▼” button to switch the alarm function. (diagram 1-17) is OFF, (diagram 1-18) is ON .

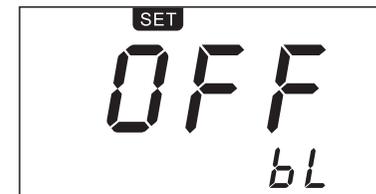


diagram 1-17



diagram 1-18

2. Temperature lock function

Under the Loc menu, press “▲” and “▼” button to turn on/off. [1] [3] button to switch menus up and down, [2] button to exit and save settings. diagram 1-8 is locked, diagram 1-9 is unlocked.

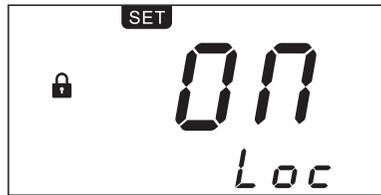


diagram 1-8

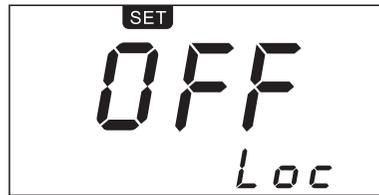


diagram 1-9

3. Temperature unit exchange

Under C-F menu, press “▲” and “▼” button to exchange temperature unit, Diagram 1-10 -C- set temperature unit is °C, diagram 1-11 is °F.

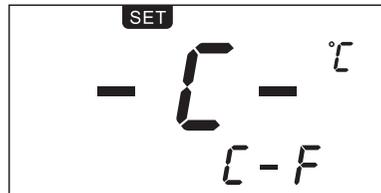


diagram 1-10

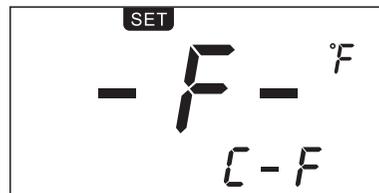


diagram 1-11

4. Temperature calibration

Under the CAL menu, press the “▲” and “▼” button to adjust the value. Calibration range [-50 °C ~ 50 °C (-90°F ~ 90°F)]. When the real temperature is lower than the display temperature, the compensation takes a positive temperature value. When the real temperature is higher than the display temperature, take a negative temperature value.



diagram 1-12



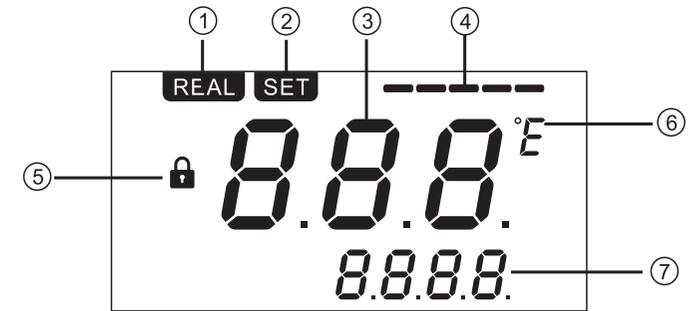
diagram 1-13

When replacing the heating element or the handle, the temperature if not accurate, can be calibrated by changing the following parameter.

Operation is as follows:

1. Set the to-be-calibrated temperature of the handle to a suitable temperature, such as 350° C / 662 °F.
2. After the temperature is stabilized, use the thermometer to measure the actual temperature of the soldering tip of the current handle, for example, the actual temperature is measured as 365 °C / 689 °F .
3. Through the analysis, it is concluded that the actual current temperature is 15 °C / 27 °F higher than the set temperature.
4. Set the temperature compensation value to -15 °C / -27 °F to compensate the error of the output temperature.

LCD display panel



1. REAL(Real Temperature) : Real temperature display symbol
2. SET(Set Temperature) : Power on and set temperature display symbol
3. Main display window: display actual temperature value
4. Analog heating-up bar to show the current power.
5. Lock symbol
6. Temperature unit symbol
7. Preset temperature value

Working status

1. Normal work

(diagram 1-1) means: Real temperature 350 °C, preset value 350 °C and locked, heating power value 3.

2. Enter sleep mode

(diagram 1-2) means: it will heat at 200 °C in sleep mode.press any key or move the handle to return to normal.

3.Turn off the heating mode (only after turning on the sleep function)

(diagram 1-3)means: The heating function is turned off . press any key to return.

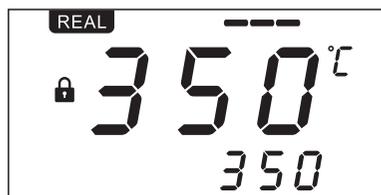


diagram 1-1



diagram 1-2



diagram 1-3

Temperature setting

Under normal work, press “▲” or “▼” button (diagram 1-4) to adjust temperature value (diagram 1-5). long pressing can be quickly adjusted. After stop pressing for 3 seconds to store . (The temperature value cannot be adjusted when locked)

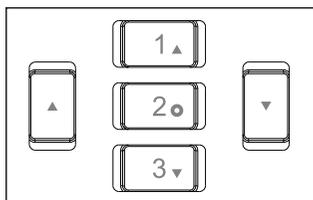


diagram 1-4

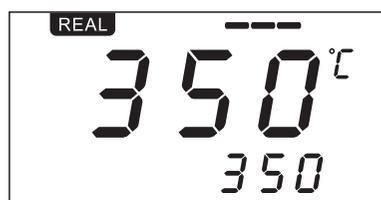


diagram 1-5

Memory temperature (user-defined)

Press“1 or 2 or 3” button (diagram 1-6) to quickly preset temperature value which stored.

Long pressing “1 or 2 or 3” button (more than 3 seconds) to store temperature value.

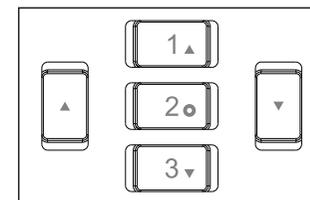


diagram 1-6

Menu setting

Under normal work, press "1 "+ "3 "button more than 3 seconds to enter the password input interface. No password for the first time. press 2 button to enter the menu mode , then input password to enter. Press the 2 button on the menu to exit and save the settings. (Note: After all the functions are set, press 2 to save the settings)

1. Button definitions in menu setting mode.

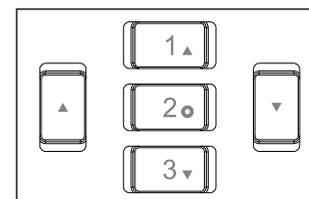
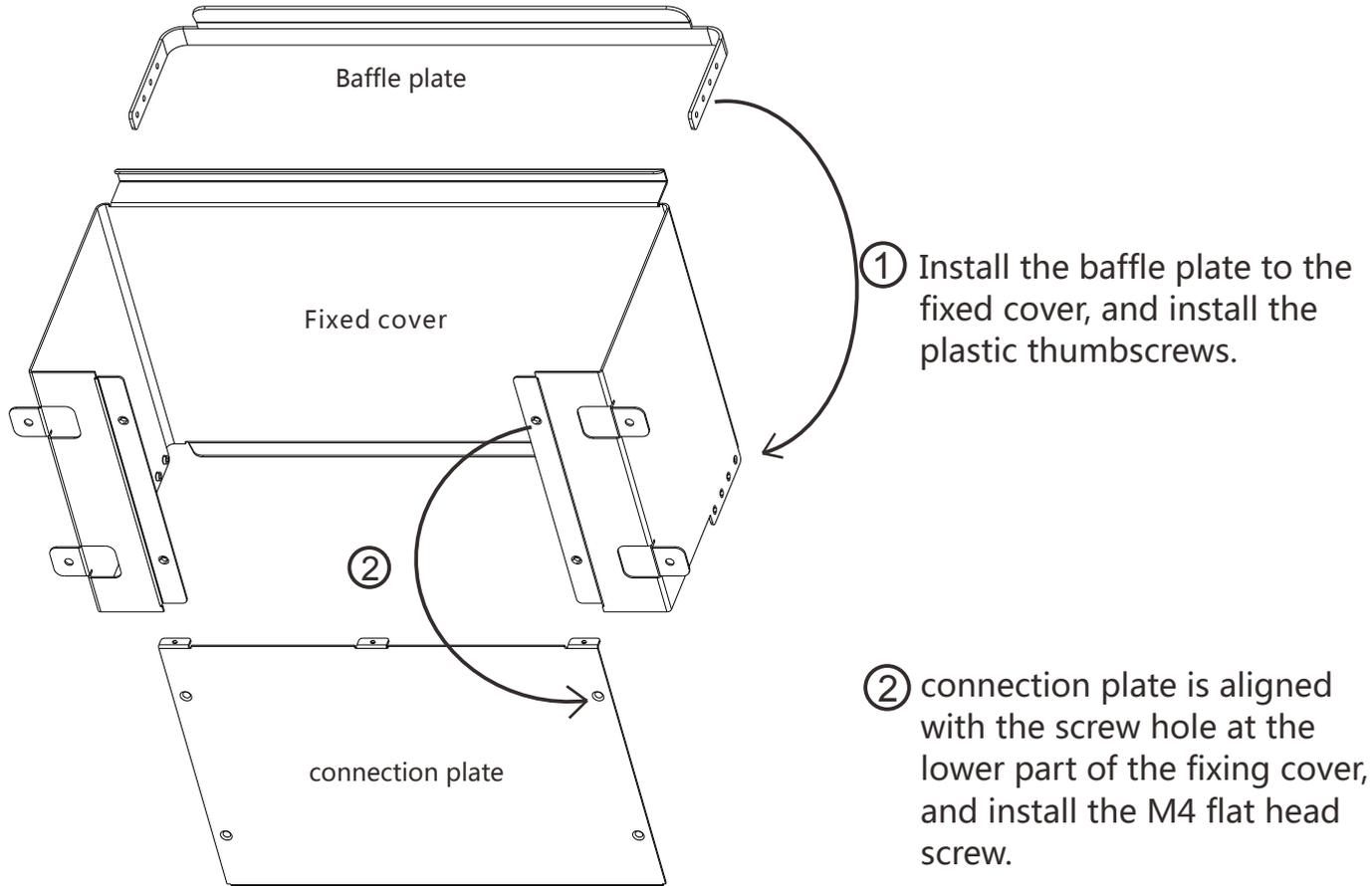
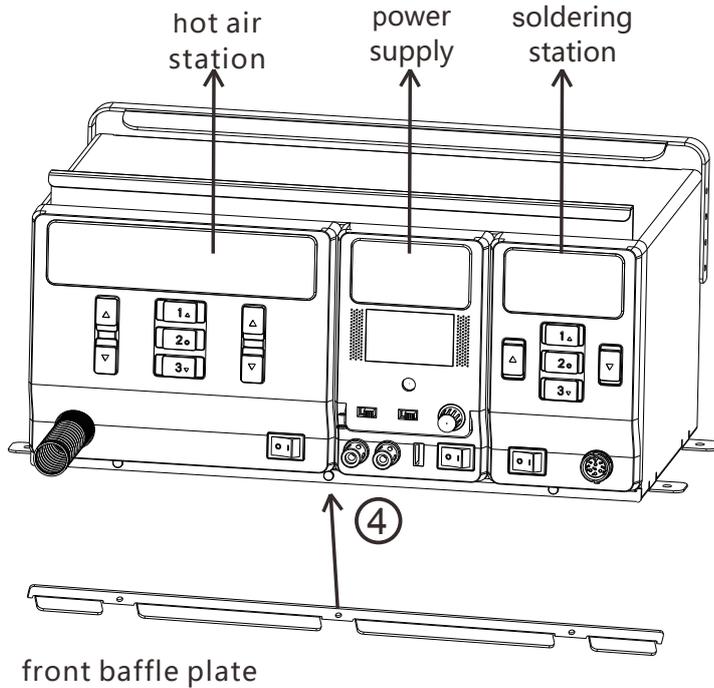


diagram 1-7

- 【1】 Up button
- 【2】 Exit and set button
- 【3】 Down button
- ▲ increase value
- ▼ decrease value

multicomp^{PRO} MP740131 Assemble diagram





③ hot air station, power supply, and soldering station inside to fixed cover from left to right.

④ Install the front baffle plate to the fixed cover at last . note that the gear side towards inside . and align the screw holes with M3 flat-head screws.