XYTRONIC®

Instruction

Manuel

For

LF-2900

Temperature Control Soldering Station

INTRODUCTION

Thank you for purchasing Xytronic's intelligent high power soldering station – the best solution for your soldering equipment needs especially for lead free applications! We believe that you will be more than satisfied with many features and the versatility of your new soldering station. **Please carefully** read the instruction manual prior to operate to maximize the advantages of using your new soldering station.

⚠ WARNING:

This appliance is not intended for use by children or other persons without assistance or supervision if their physical, sensory or mental capabilities prevent them from using it safely. Children should be supervised to ensure that they do not play with the appliance. Failure to observe the safety regulation will result in a risk to life and limb. The manufacturer shall not be liable for damage resulting from misuse of the unit or unauthorized alterations.

⚠ CAUTION:

- Always place the soldering iron in its original holder when not being used.
- Keep the soldering tip and heating element away from the body, clothes and flammable material when in operation.
- The soldering tip and the heating element are still remaining hot after being switched off. Ensure that you do not touch the soldering tip and the heating element.
- For your health, do not inhale solder fumes.
- You must not undertake work on live parts. Only the technician is permitted to undertake repairs. Use the original replacement part only.

KEY FEATURES

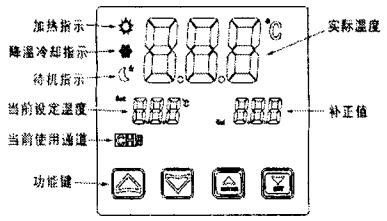
- **Sleeping Model**

  When Sensor Broken or Internal Circuit problem the display will shown " S-E" Power On soldering iron will be cut off.

Important Notice :

The following operation is the normal operating mode

- 1. Under normal operating mode : By adding up key"▲"or Down Key"▼ "It will change the temperature。
- 2. Display Panel Temperature change adjustment by **" Tap "** the white button Beside the LCD display with Pre-setting function for 3 Channel CH1、CH2、CH3 temperature setting



加熱指示 – **Heating** , **實際溫度- Actual Temperature** ,

降溫冷卻指示-Cooling ,**待機指示- Standby** ,

當前設定溫度- Set Temperature ,

當前使用通道- Pending channel ,**補正值- Correction Value** ,

功能鍵 – Function Keys

S-E

- ISOLATED IRON HOLDER WITH TIP CLEANER: Made of low abrasive brass shavings instead of conventional sponges to meet RoHS requirement cleans better and no water is necessary.

- LOW VOLTAGE OUTPUT WITH SAFETY OPERATION: The power unit is isolated from the A.C. line by a transformer and allows 32Vac to drive the heating element. Solder wand runs from 32 Volts for safety and with 100W high power ceramic heater for a super-fast heat-up and quick temperature recovery. The solder wand is attached with heat resistant, non-burning, flexible 6-wire cord.

- ESD SAFE AND SPIKE FREE CIRCUITRY: The "Zero Voltage" electronic switching design also protects voltage and current sensitive components (CMOS devices, etc.) against damaging current and transient voltage spikes commonly produced by less efficient, mechanically switched stations.

- DETACHABLE AC POWER CORD WITH PLUG: Engineered AC outlet for alternating AC power cord with plug and connector specially designed for individual CE countries requirements.

- EARTH JACK: With a grounding connector, there is the possibility for a grounding of the wire strap if required.

PRODUCT DESCRIPTION

The high power LF-2900 electronically temperature controlled soldering station with specially intelligent chip microcomputer control designs was developed to meet the present and future Lead-free soldering needs of the electronic production industry and suitable for work on professional SMD electronics. An ergonomic handle with shorter distance between heating element and tip gets very fast heat up time and quick heat compensation. A high-quality sensor and heat transfer technology ensure precise temperature regulation is essential for making consistent, reliable soldered connections. The aluminum alloy housing has the advantages of strong structure, good heat sink and effectively resistant of electro-magnetic interference. It provides all the benefits of temperature regulation and connects via a highly flexible burn-resistant lead, and can be easily adjusted in temperature.
The LF-2900 incorporates electronic circuitry which enables the user to alter tip temperature from 100(212°F) to 500℃(932°F) without changing tips or heating elements. Also, with bigger size digital display readout and pressing keys on the front panel get clear vision and comfortable setting. The temperature is maintained within +/-3℃ (+/- 6°F) of its operating temperature by a thermocouple sensor placed in the head of the heating element, allowing the tip to rest against the sensor. The 100W high power results in both a rapid heat-up and super fast recovery.

The revolutionary "Zero Voltage" electronic switching design also protects voltage and current sensitive components (CMOS devices. etc.) against damaging current and transient voltage spikes commonly produced by less efficient, mechanically switched stations. The power unit is isolated from the A.C. line by a transformer and allows only 32Vac to drive the heating element. The temperature "Lock-out" feature by "password" is convenient for production management. The many features of the product make it the ideal tool for service and repair technicians as well as production line soldering operations. This unit is developed to meet the present and future lead-free soldering needs of the electronic production industry and is ideal for use at any AC outlet.

SPECIFICATIONS:

Model	LF-2900	
Input	220-240Vac 50Hz	100-120Vac 60Hz
Output	32Vac/100W	
Fuse (Slow type)	1A	1.5A
Temperature Range	100℃-500℃/212℉-932℉	
Soldering iron	306K	
Figure Dimension	150x145x102mm(W x H x D)	
Weight (Unit only)	2.5kg	

WORKING TEMPERATURE

To meet RoHS requirements, the 60/40 solder alloys are not allowed in the production process. The lead free solder alloys require a working temperature of 30℃ (54℉) higher than previous generation electrical soldering. The working temperature of solder is detailed below and can vary from manufacture to manufacture.

Melting point	220℃ (428℉)
Normal operation	300-360℃ (572-680℉)
Production line operation	360-410℃ (680-770℉)

When the iron's working temperature is set within the parameters suitable for the type of solder being used, a good joint is assured. Too low of a temperature will slow the rate of solder flow while a high temperature setting might burn the flux in the solder and emit a heavy, white smoke resulting in a dry joint or permanent damage to the printed circuit board (P.C.B.) and may also shorten the tip life.

IMPORTANT:

The temperature above 410℃ (770℉) is not recommended for normal soldering functions, but can be used for short periods of time when high temperatures are required. **Please note** that the lead free solder alloys require a higher soldering temperature which shortens tip life.

OPERATING INSTRUCTIONS

- Ensure that the working voltage matches your power supply before beginning use.
- Check carefully for any damage during transportation.
- This unit contains:
  1. Solder wand.
  2. Iron holder with brass tip cleaner.