



ASE-1101

P.I.D. TEMPERATURE CONTROLLED SOLDERING STATION

FEATURES

1. Equipped with a long life Japanese-made ceramic heater provides fast heat up and heat recovery.
2. The "P.I.D." temperature control provides an extremely precise temperature control that assures an accurate steady temperature.
3. The temperature range is 200°C-500°C (392°F-932°F).
4. Ceramic heater insulation rated over 100 Mohms at 400°C / 752°F. Leakage is less than 0.4 mV.
5. Heater is able to be driven by using only 24V low voltage power that assures the safety while is on the job. Zero voltage switching ensures low noise and greater protection on components. An equipment inside station connects soldering iron tip to the ground.
6. After removing the barrel and nut, the soldering irons of 90L series are very easy to be replaced, and fits to solder larger points.
7. The soldering station incorporated with a temperature control lock to avoid the unwanted temperature adjustment by the operator.

OPERATION INSTRUCTIONS

- Ensure working voltage matches your power supply before plugging into the station.
- Check carefully any possible damage during transportation.

Set temperature by moving "SET-READ" switch to "SET" position, and rotate temperature control knob until the digital display reads the desired temperature. Then turn "SET-READ" switch to "READ" position. The station will maintain the preset temperature.

COMMON CAUSES OF TIP UNWETTING

1. Tip temperature is higher than 410°C / 770°F.
2. The tip working surface is not tinned while the iron idling.
3. Lack of flux in soldering, wicking, repairing, and touch-up operations.
4. Wiping the tip on high sulfur content, dirty or dry sponges and rags.
5. Touching with organic substance such as plastic, resin, silicone, grease or any other suitable chemicals.
6. Impurities in solder and/or low tin content.

CAUTION

Soldering irons operate at high temperature. It is very easy to get burn. DO NOT TOUCH the tip and heater at any time while the unit is on and keep it in a safety distance from

inflammable materials. Please allow sufficient time for it to cool down before changing tip or servicing the unit!

IMPORTANT

Remove the tip and clean after moderate to heavy use or at least daily if on the production line. Remove any loose build up in the tip retaining assembly to prevent tip from freezing. The soldering tips supply are iron clad copper and if used properly, they should maintain optimum life.

1. Always tin the tip before returning it to the holder, turning off the station, or storing it for long periods of time. Wipe the tip on a wet sponge prior to use.
2. Keeping the iron set at high temperature (more than 400°C / 750°F) will shorten tip life.
3. Do not use excessive pressure on the tip or rub the joint with the tip while soldering, since it does not improve the heat transfer and may damage the tip.
4. Apply solder to the joint, not the tip when soldering. The flux is naturally caustic and thus will eat away the tip.
5. Never clean the tip with a file or abrasive materials.
6. Do not use fluxes which contain chloride or acid. Use only rosin or resin activated fluxes.
7. If an oxide film forms on the tip. It can be removed by careful buffing with a 600-800 grit emery cloth, isopropyl alcohol or the equivalent, then wrapping rosin core solder around the newly exposed surface. Coat the tinned areas with rosin-core solder after the resin-core has melted.

NEW TIPS

Following these steps will lead to optimum tip life.

1. Set temperature to minimum, then turn the main power switch to "ON" position.
2. Set temperature to 250°C / 482°F.
3. Coat the tinned surface with rosin-core solder after reaching 250°C / 482°F.
4. Set to desired temperature after allowing the unit to idle at 250°C / 482°F for 3 minutes.
5. The iron will be ready for use once it reaches the preset temperature.

SPECIFICATIONS

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| AC INPUT | 110-120V AC 60Hz |
| TEMPERATURE RANGE | 200°C-500°C (392°F-932°F) |
| POWER CONSUMPTION | 24V AC / 60W |
| HEATING ELEMENT | CERAMIC HEATER |
| SOLDERING IRON | ASE-1101-H3 |
| STANDARD TIP | 90M-T-B |
| WEIGHT | 1700g / 3.8 pounds |
| DIMENSIONS | L170 x W120 x H105 (mm) / 6.7" x 4.7" x 4.1" (inches) |