Soldering Station ZD-931

Item Number: 06510012

> **Important:** Before using the device, please carefully read this instruction manual and follow all the safety instructions contained within. Keep this manual in a safe place!

Soldering station with electronic temperature control and a digital LCD display.

Features

- Iron stand and cleaning sponge
- LCD display showing target and actual temperature
- Compact, solid, and safe design
- Electronic temperature control
- Short heat-up time and high power
- 60W power for soldering large areas
- Low voltage heating
- Precise temperature adjustment in 5°C steps
- Temperature adjustment range: 150°C to 450°C
- Optical and acoustic error reporting

Control Elements

1. LCD display
2. Temperature adjustment buttons
3. Power switch
4. 5-pin connector
5. Cleaning sponge

Specifications

Power Supply	230V AC (220 - 240V) / 50Hz
Power Consumption	90W
Soldering Iron Power	45W
Fuse	T1A/250V 5x20mm
Regulation Range	+150°C to +450°C
Display	3-digit LCD
Display Range	+150°C to +460°C
Accuracy	5%
Ambient Temperature	+5°C to +40°C
Air Humidity	85%
Barometric Pressure	600 to 1000 hPa
Dimensions	185 × 150 × 100 mm
Weight	Approx. 2 kg

Safety Instructions

- Respect all warnings regarding the use of the device.
- Do not connect the device to an outlet that does not have a grounding pin. Do not use the device if it is not properly grounded.
- Do not remove the device cover; there is a risk of electric shock.
- This device must not come into direct contact with liquids. Do not touch the device with wet hands. If any liquid gets inside the device, unplug it immediately to avoid electric shock.
- Avoid placing this device on any heat sources, e.g., radiators.
- The device must not be placed on surfaces that may restrict air circulation or placed as a built-in installation where air circulation may be prevented. Place it in a well-ventilated area, away from direct sunlight, moisture, and on a vibration-free surface.
- Connect this device only to the mains voltage specified in the manual or marked on the device.
- Always insert the power cord plug firmly into the socket. Route the power cord so that you do not step on it or damage it. When disconnecting the power supply, pull by the plug and not the cord. Do not use the device if the power cord is damaged.
- Ensure that no objects fall onto the device and that no moisture gets inside.
- Entrust the repair of the device only to a qualified service center. If you have any questions, contact the seller or a specialized service. Unauthorized tampering can lead to electric shock and voiding of the warranty.
- If smoke emits from the device or it overheats, unplug the power cord from the socket.
- To reduce the risk of electric shock, do not expose the device to rain or moisture. The device must NEVER be left or stored in a damp environment.
- This device is intended only for soldering electronic components. Do not use for heating liquids, plastics, toxic, or flammable materials.
- Do not use the device if it is damaged or malfunctioning.
- Work with the heated soldering iron with the utmost caution. The high temperature of the soldering tip can cause fire and severe burns.
- Never file or grind the soldering tip.
- When replacing the fuse, use a new fuse of the exact same type and rating.
- Children must not handle the device. Keep the device out of their reach (it contains small parts and gets dangerously hot).

Operating Instructions

Preparation for Operation

1. Insert the soldering iron into the holder on the soldering station.
2. Moisten the cleaning sponge before use.
3. Check that the soldering tip is firmly inserted.

Electrical Connection

1. Plug the soldering iron 5-pin connector into the soldering station.
2. Plug the power cord into a 230V AC mains socket.

Temperature Setting

1. Turn on the power switch.
2. Use the temperature adjustment buttons to set the desired soldering iron temperature in the range of +150°C to +450°C.
3. The set and current temperature will be shown on the LCD display.

Handling and Soldering

- The optimal temperature for soldering is typically between +300°C and +380°C. If the temperature is too low, the soldering joint will not be firm; if it is too high, the solder tin will burn.
- Regularly clean the soldering tip on the moistened cleaning sponge.
- Begin soldering only once the soldering tip has reached the desired set temperature.
- **Note:** During the first use of the soldering iron, manufacturing components inside the heating element will burn off, resulting in a small amount of smoke. This phenomenon is completely normal and should last a maximum of 10 minutes.
- Never file or mechanically abrade the soldering tip, as this destroys its protective coating.
- Do not forget to turn off the soldering station after you have finished your work.

Recommendations

- If the device registers an internal fault or is damaged, a warning signal will sound. In this case, immediately pull the power plug out of the mains socket.

Cleaning and Maintenance

- The device should only be cleaned according to the manufacturer's recommendations.
- Always disconnect the soldering station from the mains socket and let it cool down completely before cleaning.
- Do not use liquid cleaners, spray cleaners, or any solvents. Use only a damp cloth or a soft brush for cleaning the exterior.
- Ensure that no liquid penetrates inside the soldering station casing.
- A switched-on soldering station must never be left unattended.
- In the event of a station malfunction or damage to the power cord, the station must not be operated any further and must be immediately disconnected from the mains.
- Never remove the protective cover from the soldering station and do not attempt to repair it yourself.
- If the fuse blows due to a station overload, replace it only with a fuse of the identical type and rating (T1A/250V 5x20mm).