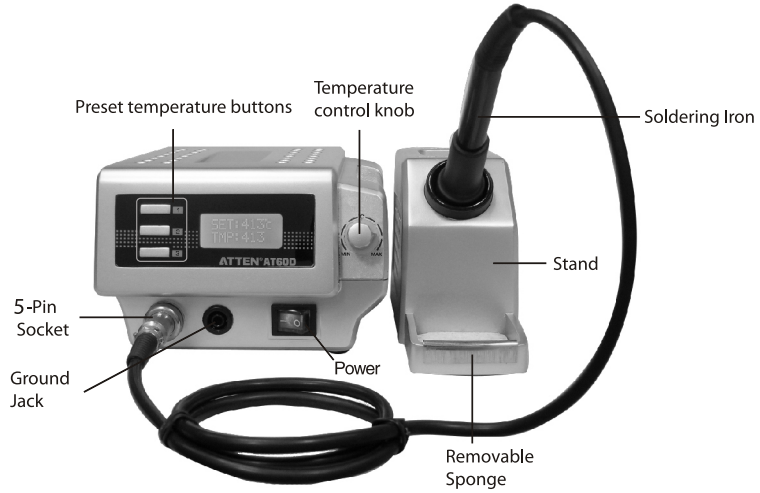
ATTEN®
INSTRUMENTS

Digital Soldering Station

AT60D/80D/100D

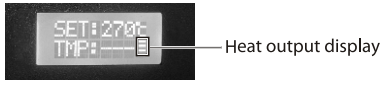


Preparation

1. Insert the soldering iron's plug into the 5-pin socket on the soldering station and tighten the nut on the plug securely. The plug only fits one way.

2. Insert the soldering iron into the support in the soldering stand and wet the sponge in the tray with water.

3. Plug the station's power cord into a power source. Switch **POWER –/o** to **–** to turn the station on and the display shows:



4. Currently,the unit is in the state, the max power heating.While the tip temperuture is close to or over the setting temperature, the display shows:

SET: The assigned or preset temperature of the soldering tip

TMP: The actual temperature of the soldering tip

Notes:

- The default temperature unit is Celsius. You can change the setting Celsius as follows:

  Switch **POWER –/o** to **o** to turn the station off. Press and hold **PRESET3** for a few seconds. While pressing, switch **POWER –/o** to **–** to turn the station on. The display will show the temperature setting changes from °C & °F and vice versa. Restart the station to operate it.

- **Heat output display**: The number of bars decreases when the rising actual temperature becomes close to the assigned temperature. When the actual temperature exceeds the assigned temperature, the bars will disappear.

Reassigning the temperature

The digital soldering station allows you to modify and adjust the temperature between 150ºC and 450ºC using the temperature control knob.

The factory preset temperatures are:

PRESET 1=150ºC
PRESET 2=270ºC
PRESET 3=360ºC

To reassign the temperature, do the following:

1. Press and hold **PRESET2**. The display shows the following after about 4 seconds:

2. Adjust temperature with the temperature control knob. The number beside **PS2** indicates the desired temperature.

3. Release **PRESET2** to store.

Repeat steps 1-3 for **PRESET1** and **PRESET3**.

Soldering

When the soldering iron has reached the desired temperature, you can start to solder.

Note: When using the soldering tip for the first time, coat it with solder (tin). Retin it after use to prevent oxidation.

1. Remove the soldering iron from the stand.

2. Clean the tip by quickly wiping it on the wet sponge, so impurities and oxides are removed from the soldering tip.

3. Tin the soldering tip by adding a small amount of solder.

4. Hold the soldering tip to the point to be soldered.

5. Heat the point to be soldered and the connection pins of the respective component (transistor, IC, diode, resistor) at the same time (so the solder flows well) to make a good, electrically conductive connection, and apply the solder.

6. After soldering, remove the soldering iron tip from the point and let the point cool.

7. Clean and tin the soldering iron. Then put the soldering iron back into the stand.

Thank you for purchasing your Digital Soldering Station from **ATTEN** . Please read this user's guide before installing, setting up and using your new product.

What's Included

Digital Soldering Station
User' s Guide
Sponge

Specifications

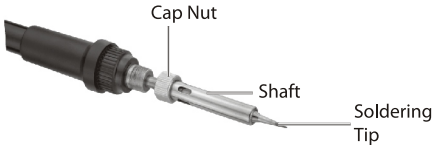
Output power	60W/80W/100W
Output voltage	24V AC
Input voltage	230V AC
Dimensions (W×H×D)	16.7 cm × 13.8 cm × 9.2 cm
Temperature setting range	150˚-450˚C
Fuse type	400mA/630mA slow-blow/ 250V
Length of the handle cord	150cm

Specifications are subject to change and improvement without notice. Actual product may vary from the images found in this document .

Replacing the Soldering Tip and Fuse

Replacing the soldering tip

1. Switch **POWER –/o** to **o** to turn off the station and let it cool down.
2. Loosen the metal cap nut on the shaft of the soldering iron, then pull off the metal shaft.
3. Replace it with a new soldering tip (not included) and tighten the metal shaft securely.



The temperature shown on the display is calibrated to the included soldering tip type, and may vary when using a different tip.

To compensate for the deviation, do the following:

1. Press and hold **PRESET1** and **PRESET3** simultaneously. The following display shows after about 3 seconds:

2. Release the two buttons. Each replacement tip has a correction value (usually shown on the package), which you set by holding **PRESET1** to go up and **PRESET3** to go down between -20˚C and +30˚C in Celsius setting. The display shows:

3. Press **PRESET2** to save a value and the display shows:

Notes

- The setting is stored after turning the station off.
- The default temperature of the supplied tip is 0˚C.
- To order additional or replacement tips, please contact us for assistance.

Replacing the fuse

If the soldering station does not operate, you might need to replace the fuse.

1. Disconnect the soldering station from the power supply.
2. Press and rotate the fuse holder cap on the bottom of the station counterclockwise.
3. Remove the old fuse and replace it with a new one (400mA for 60W/630mA for 80W/100W/slow-blow/250V).

4. Replace the cap and rotate it clockwise.
5. Plug the soldering station back into power outlet.

Troubleshooting

Soldering tip temperature does not show on display.

- The temperature is out of measurable range.
- The soldering iron is not connected properly.
- The soldering iron is defective.

The soldering station does not work or shows unrecognizable characters on the display.

- The soldering station is not switched on.
- The power plug is not inserted into the power outlet.
- The fuse is blown and you need to replace the fuse.
- The processor is disrupted and you need to restart the station.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

The lightning symbol is intended to alert you to the presence of uninsulated, dangerous voltage within this product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

The exclamation symbol is intended to inform you that important operating and maintenace instructions are included in the literature accompanying this product.

Important Safety Instructions

READ ALL INSTRUCTIONS BEFORE USING!

- Keep the station away from children.
- If the supplied cord is damaged, it must be replaced by a qualified technician to avoid hazard.
- Never apply voltages to the station that exceed the specified limits.
- Only operate this station in properly ventilated rooms or rooms with a fume extraction system. Inhalation of soldering fumes and particles from flux in the solder is detrimental to health.
- Never cover the ventilating slots when using the station. Place the station on a hard, flame resistant base.
- Never heat plastic materials or liquids (solvents, water, etc). Heating plastic materials may produce toxic fumes.
- Always observe the manufacturer's directions concerning soldering paste, solder creams, and fluxes.
- Capacitors in the station can still carry voltage, even if the station has been disconnected from all voltage sources.
- Do not turn the station on immediately after moving it from a cold place to a warm place. Condensation might impair operation or damage the station. Wait for the station to warm up to room temperature before switching it on.
- Be careful using the soldering iron if it is set above 160ºC , as it can ignite some substances.
- The tip must be well tinned for good heat conduction. If it has been inoperative for any length of time, it should be retinned.
- To prevent ESD (electrostatic discharge) damage to static sensitive devices, connect a ground wire (not included) to the ground jack on the front of the station using a banana plug.
- Never hold the soldering tip to the soldering point too long. This can destroy the soldering point.
- Never operate the soldering iron without the soldering tip. This can damage the heating device.
- The soldering station should not be thrown in the garbage.
- This product, when used for soldering and similar applications, produces chemicals known to the State of California to cause cancer and birth defects (or other reproductive harm).
- Do not use a fuse with ratings other than those specified. Doing so might damage your soldering station. Use only new fuses. Do not use repaired fuses and do not bridge the fuse holders.
- This soldering station is not intended for commercial use.

The station is fully calibrated and tested. If the station requires repair, do not try to adjust it yourself.

Care

- Keep the soldering station dry; if it gets wet, wipe it dry immediately.
- Use and store the soldering station only in normal temperature enviroments.
- Keep the soldering station away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.
- Modifying or tampering with the soldering station's internal components can cause a malfunction and might invalidate its warranty.