

# ATTEN

**AT-989D**

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**SOLDERING STATION**

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**USER'S MANUAL**

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**SHENZHEN ATTEN TECHNOLOGY CO., LTD.**

Copyright

The design of this product (including software) and its accessories is under tutelage of laws. Any action to violate relevant right of our product will be penalized through law. Please consciously observe relevant local laws in the use of this product.

Symbols and conventions


Thank you for purchasing this soldering station product. Please read this manual carefully and pay attention to warnings and precautions mentioned herein before using this product.

	Warning you against the risk of electric shock.
	Warning you against the risk of physical injury.

Assumption for user

We assume that user have common sense and basic relevant electrical operation knowledge before using this product. This device is not intended for use by persons (including children) with limited physical, sensory or mental aptitude, or by persons who lack knowledge or experience in handling the device. 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. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Safety

**WARNING:** The soldering tip temperature can reach 150℃~480℃ as this product in working status. User should obey following rules rigorously in view of improper operation will cause fires or burns.

- Never touch soldering tip and surrounding metal part of soldering tip before soldering tip cool down completely.
- Never use this product around flammable objects.
- Always turn switch off after operation and always turn switch off for temporary not-operation.
- User must waiting soldering iron cool down completely after turning switch off for the replacement of soldering tip and internal parts.
- Never operate on product for those who have no experience or have no basic knowledge for the circumstance of no guidance.
- Keep this product out of reach of children.
- Never place product and part of it in water or operate as your hands are wet.
- Please keep workplace well ventilated for fumes produced in soldering work.
- Never play with others while using this product.

Disclaimer

- For physical injuries and possessions loss caused by those reasons which are not related to product quality such as operating without following manual guide, natural disasters or force majeure, we take no responsibility for that.
- Under the supervision of Shenzhen Atten Technology Co., Ltd, this manual has been compiled and published which covered the latest product description and specification. The content of

- this manual is subject to change without notice.

**ATTENTION:** To avoid damaging to unit and keep operation safe, please read the instruction manual ahead and keep it accessible for any operator.

## Item check list

Name	Quantity
Soldering station	1 Unit
Soldering iron	1 PCS
Iron supporting stand	1 Unit
Power cord	1 PCS
Manual	1 Copy
Sponge	1 Unit

## Product overview

AT-989D is a new designed digital soldering station which got better performance and is more convenient and safer to use. And it has been widely used in colleges & universities, institutes, industrial production line and so on.

## Features

- Brand new design and LCD display which can display various setting values.
- New designed menu enable system setting easier.
- Visual control over operation process which Analogue heating-up status bar to indicate heating up status and visual setting.
- 3 keys to store and retrieve frequently used temperature values quickly.
- Provide temperature locking function to make production line management convenient.
- Smart standby, shutdown function, adjustable standby time and adjustable shutdown time enable more energy saved and environment friendly.
- Temperature calibration was designed to be more precise and more convenient to keep this product in good performance for a long time.
- This product was designed with low-voltage heating heater which is completely separated from power supply to keep soldering work safer.
- This product was designed to be compatible with general 900M series soldering tip which was assembled separately with heating heater to cut user costs down.
- Separated iron stand to save room and to make soldering station layout easier.

## Specifications

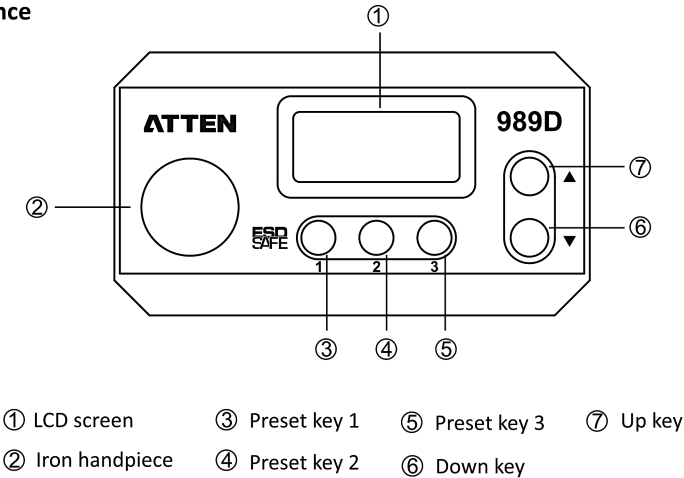
	AT-989D
Input Voltage	AC (100V/110V/120V   220V/230V/240V) 50/60Hz(optional)
Power	65W
Temperature Range	80-480°C/176-896°F
Temperature calibration range	± 50°C/ ± 90°F

	AT-989D
Temperature Stability	± 2℃ ( in still air, without load )
Automatically stand-by time	1-120 minutes
Standby temperature	150℃
Automatically shut down time	1-120 minutes
Heating element	High end quad-wire heater
Temperature lock	Yes
Beeping	Yes
Tip-to-ground impedance	< 2 Ω
Tip-to-ground voltage	< 2 mV
Volume	142x113x82mm
Net Weight	1.730KG
Soldering tips	900M series(Appendix)

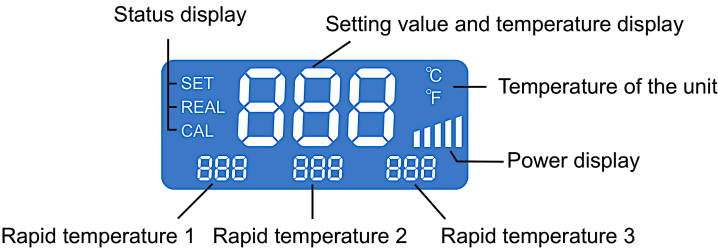
※ The above specifications are subject to further change without notice and refer to actual products.

※ It is not recommend to set working temperature above 450℃ for a long time to keep this product lifespan longer.

### First glance



### LCD display panel



## Operational guide

### 1.Connection

- 1.1 Plug soldering iron cable end into the front panel interface and put handle into the stand.
- 1.2 Plug the power cord into the behind interface .(Please ensure the power voltage is fit for this product)

### 2. Power-on

Turn the switch on after connecting the power cord .The LCD display screen will display the system version number for 1 second ,then the LCD display screen will show the last setting temperature value. Three seconds later, the display screen will show the soldering iron real-time temperature value



### Working status

(means:ST-80A V0.1 version)

#### 1. Normal working state

Set the temperature to 350 °C, the real-time temperature value is 350 °C,3 sets shortcut temperature Heating power value 2 grids, real-time status display symbol



diagram1-1

#### 2. Temperature lock state

The button cannot adjust the temperature.

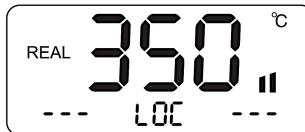


diagram2-1

#### 3. standby mode

In the standby state, it will heat at 200 °C. Press any key and move the handle to return to normal.

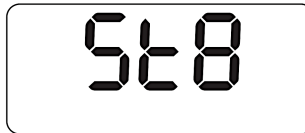


diagram3-1

#### 4 .Heating off state (only available after the standby function is turned on)

The heating function is off, and the heater does not heat. Press any key to resume heating



diagram4-1

## 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)

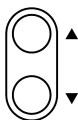


diagram 1-4

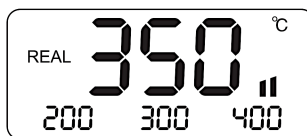


diagram 1-5

## 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 .

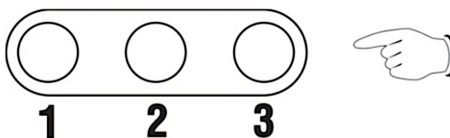


diagram 1-6

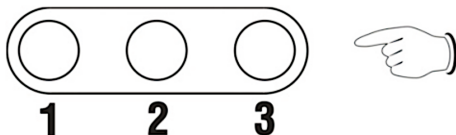
## Menu setting

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.



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



## 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. diagram2-1 is locked, diagram2-2 is unlocked.

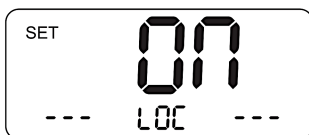


diagram2-1

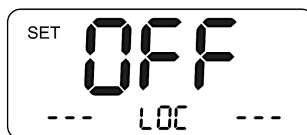
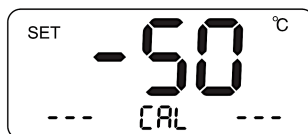


diagram2-2

## 3. 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.



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.

## 4. Temperature unit exchange

Under C-F menu ,press“▲” and “▼”button to exchange temperature unit, Diagram 4-1 -C- set temperature unit is °C ,diagram 4-2 is °F .

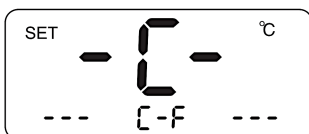


diagram4-1

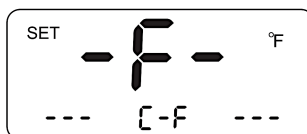


diagram4-2

## 5. Setting automatic stand-by time

Under "STB" menu , Press the "▲" and "▼" button to adjust the standby time (1-60 minutes) and turn off the standby function, Auto-off heating time = standby time + 20 minutes (the standby function is off, and the heating off function is also off)

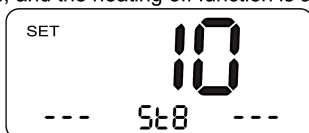


diagram5-1

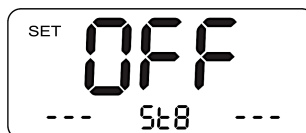


diagram5-2

## 6. 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.



Factory default : Loc (Temperature lock) : OFF  
CAL(Temperature calibration) : Reset  
STB (Auto-sleep) : Open ( 10 )

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

## Product warranty

- This product is guaranteed for two years from the date of purchase(excluding consumables such as the heating core). If any quality problem is found within the guarantee period, we will response for the maintenance free of charge.
- For those product beyond the warranty period, we provide life-long maintenance services.
- For those product damaged due to users' improper application and unauthorized changes to the product parts, our company only provides limited warranty service.
- In case of a product fault, please send the faulty product to the designated maintenance shop for maintenance, and those service center and personnel unauthorized by the factory are prohibited from carrying out any maintenance on the product.

## Maintenance

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

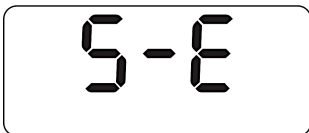


diagram 1-25

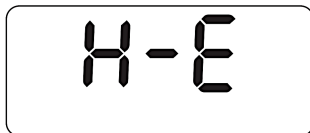


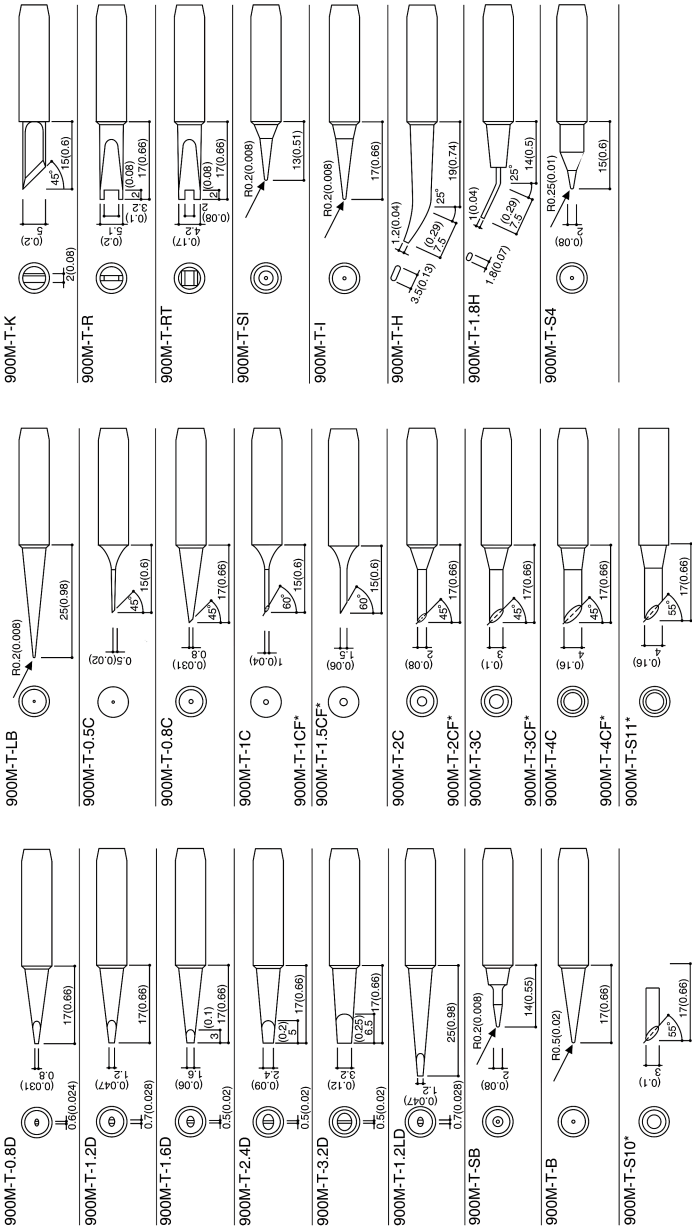
diagram 1-26

## After-sales contact

After-sales service department Tel: (+86) 755-26976387



Interchangeable soldering tip specifications (900M series)





Warranty	Certificate of Product
<p>This product warranty period cover 24 months from the day this product purchased. We will make free maintenance for any quality problem itself if this card and receipt provided. We will repair and return your device within 2 workdays after receiving repairing-req device.</p> <p>Note: please attach this warranty card if you want your device to be repaired without charge.</p>	<p>Model: _____ Product NO.: _____</p> <p>QC: _____ Production date: _____</p> <p>Sales clerk: _____ Sale date: _____</p>

## **SHENZHEN ATTEN TECHNOLOGY CO., LTD.**

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- Soldering Iron ●Soldering Station ●Hot Air Rework Station
- Multi-function Rework System ●BGA Rework System
- Regulated DC Power Supply ●Switching DC Power Supply
- Programmable Power Supply

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