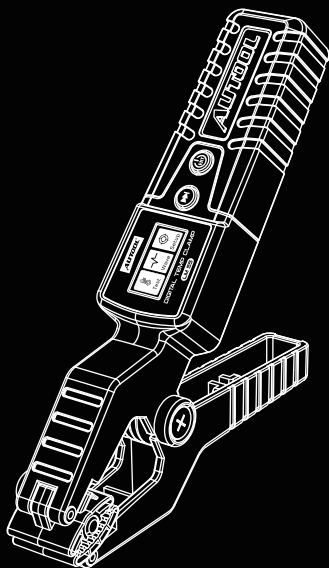


# **AUTOOL LM55**

Digital Temp Clamp

User Manual

用户手册





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企业标准/Corporate standard: Q/OR 005-2023



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## SPECIFICATION

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Rated operating voltage	<b>4.5V (3XAAA batteries)</b>
Operating current	<b>&lt;30mA</b>
Standby power consumption	<b>&lt;500uA</b>
Display screen specifications	<b>0.96-inch TFT-LCD with backlight, resolution of 80 RGB*160 dots</b>
Buttons	<b>Toggle button, Enter button</b>
Casing material	<b>PA6-GF45</b>
Button material	<b>Silicone gel</b>
Applicable measurement diameter	<b>&lt;40mm</b>
Hardware parts material	<b>Stainless steel and copper</b>
Product dimension	<b>178*100mm</b>
Outer Box Dimensions	<b>123*54*215mm</b>

## FUNCTION DESCRIPTION

---

### Live numerical display mode

- Display the current temperature data in numerical form in real-time, with a temperature measurement range of -50 to 260°C.



### Live temperature waveform mode

- Display the temperature/time curve in a coordinate system, showing the real-time variation of temperature over time. Each set of data spans 150 seconds, and a total of 8 sets of waveform data can be stored. It also allows browsing of historical waveforms.

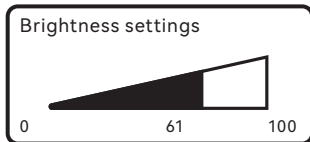


### Two language options

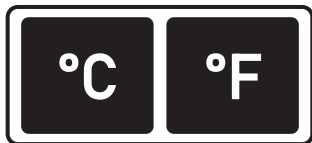
- Chinese and English.



### Adjustable display brightness



### Temperature units switching: °C、°F



After the completion of sampling 8 sets of waveform, a buzzer will sound for 15 seconds to notify the user.

If there is no user activity or if the real-time waveform mode has collected 8 sets of data for more than 5 minutes, the system will enter standby mode.

## OPERATION INSTRUCTIONS

---

### Button Description

- This device is equipped with only two buttons, the **Toggle button** and the **Enter button**. The Toggle button is used for switching, while the Enter button is used for confirmation.



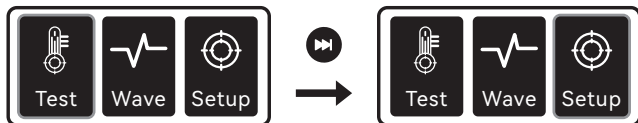
Toggle button



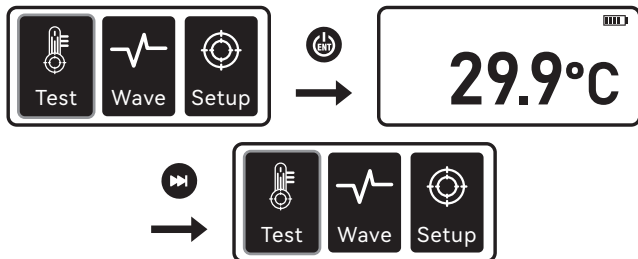
Enter button

### Display Description

- Long-press the **Enter button** for 2s to power on. Upon powering on, the screen will display "AUTOOL" and automatically navigate to the main interface. You can switch between three functional icons by pressing the **Toggle button**.

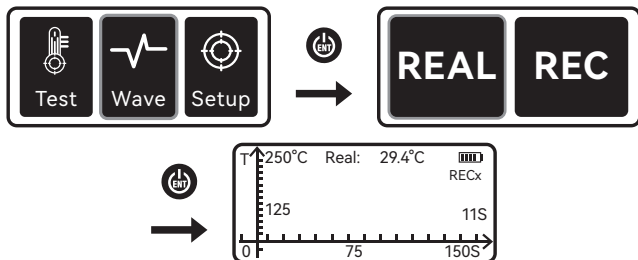


- When the cursor is positioned under the “Test” icon, pressing the **Enter button** will enter the live numerical display page. In this display, pressing the **Toggle button** will return to the main interface.



### • Live Waveform

When the cursor is positioned under the “Wave” icon, pressing the **Enter button** to confirm. If the cursor is then positioned under the “REAL” icon and the **Enter button** is pressed, it will enter the real-time waveform interface.



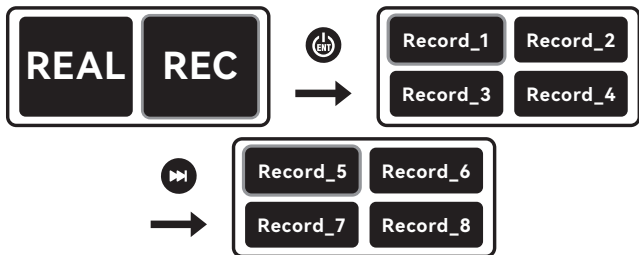


Among this, the horizontal axis represents time in seconds, and the vertical axis represents temperature in degrees Celsius ( $^{\circ}\text{C}$ ) or degrees Fahrenheit ( $^{\circ}\text{F}$ ), automatically switching based on user settings. As time progresses, a temperature/time curve will be displayed on the screen. Pressing the **Enter button** will pause the real-time waveform recording, and pressing the **Enter button** again will resume real-time waveform recording.

“Record 1” means that the current data is stored in the first historical waveform. When the time exceeds 150 seconds, it will automatically switch to “Record 2”, and so on, up to eight sets of data. After eight sets of data are stored, the device will stop storing and emit a beep to remind the user. If the waveform display is exited by pressing the **Toggle button** during the waveform display process, the next time it is entered, it will continue storing data from the same storage page.

## • Record Waveform

When the cursor is positioned under the “REC” icon, pressing the **Enter button** will enter the records selection display. Pressing the **Toggle button** allows you to switch between different historical record options, with a total of eight record options available.



If the cursor is positioned under the “Record 2” icon, pressing the **Enter button** will enter the historical waveform. Pressing the **Toggle button** again will return to the main interface.



## • Setup Settings

When the cursor is positioned under the “Setup” icon, pressing the **Enter button** to system settings interface. From there, you can configure settings such as temperature units, backlight brightness, system language, and other options.



## • Temperature Units

In the SETUP display, when the cursor is positioned under the unit icon, pressing the **Enter button** to unit selection.



Users can use the **Toggle button** to select the desired unit and then press **Enter button** to save. After saving, it will directly return to the main interface.

## • Backlight Brightness

In the SETUP page, when the cursor is positioned under the Brightness icon, pressing the **Enter button** to backlight adjustment.



Press the **Enter button** can adjust the backlight, while long-pressing the **Enter button** enables fast adjustment. Once the adjustment is complete, pressing the **Toggle button** will save and exit the brightness, automatically returning to the main interface.

- **Language**

In the SETUP settings page, when the cursor is positioned under the Language icon, pressing the **Enter button** to language settings.



Use the **Toggle button** to switch between different languages, and press the **Enter button** to select and save the language. Once the setting is completed, the display will automatically return to the main interface.

## MAINTENANCE SERVICE

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- Our products are made of long-lasting and durable materials, and we insist on perfect production process. Each product leaves the factory after 35 procedures and 12 times of testing and inspection work, which ensures that each product has excellent quality and performance.
- 

### Maintenance

To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully:

- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
- Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
- Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable.
- Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time. Adjust the clearance of various parts and replace worn (broken) parts. Avoid contact with corrosive liquids.
- When not in use, please store the product in a dry place. Do not store the product in hot, humid, or non-ventilated places.

## WARRANTY

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- From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.
- 

### Warranty access

- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

### These conditions below shall not be in warranty range

- The product is not purchased through official or authorized channels.
- The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

---

### Disclaimer

- All information, illustrations, and specifications contained in this manual, AUTOOL reserves the right of modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product. Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.

## RETURN & EXCHANGE SERVICE

- If you are an AUTOOL user and are not satisfied with the AUTOOL products purchased from the online authorized shopping platform and offline authorized dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.
- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOOL will inspect the returned items to ensure that they are in good condition and eligible. Any item that does not pass inspection will be returned to you and you will not receive a refund for the item.
- You can exchange the product through the customer service center or AUTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOOL Customer Service.

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## 参数说明

### 参数

额定工作电压	4.5V (AAA电池*3)
工作电流	<30mA
待机功耗	<500uA
屏幕参数	0.96寸TFT-LCD 80RGB*160DOTS 带背光
按键定义	切换键、确认键
外壳材质	PA6-GF45
按键材质	硅胶
适用测量直径	<40mm
五金部件材质	不锈钢、铜
产品尺寸	178*100mm
外箱尺寸	123*54*215mm

## 功能说明

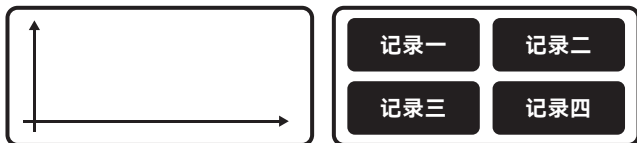
### 实时数显模式

- 以数字的形式实时显示当前温度数据，测温范围-50~260℃。

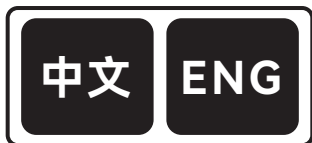


### 实时温度波形模式

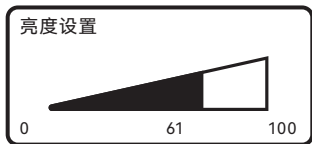
- 在温度和时间坐标系中，实时显示温度/时间曲线。每组数据150秒。一共可以存储8组波形数据。并且可以浏览历史波形。



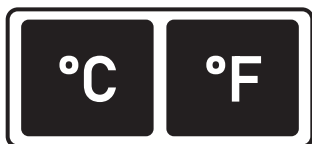
系统配置2种语言：中文、英文。



屏幕亮度可调。



温度单位可切换摄氏度°C、华氏度°F。



8组波形采样结束后，有蜂鸣器鸣叫15秒提醒用户。

无动作或者实时波形模式已采集8组数据超过5分钟。系统进入待机。

## 操作说明

### 按钮说明

- 本设备只有2个按键，切换键和确认键：



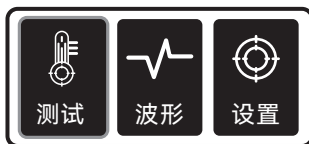
切换键



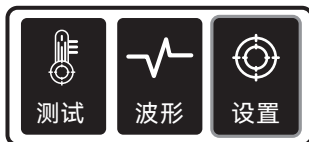
确认键

### 页面说明

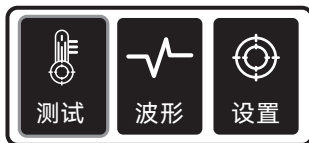
- 长按确认键[ENT]2秒开机，开机后会出现AUTOOL，并跳转到主页面：



按切换键[切换键]可以在3个功能图标之间切换：




- 当光标框在测试图标下：



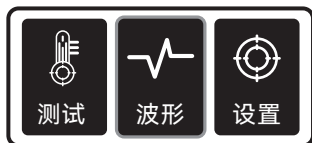
按下确认键[], 则会进入数字实时数显页面:



在此页面下, 按下切换键[]则会返回主页面。


### • 实时波形

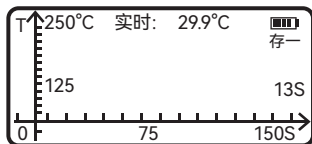
当光标框在波形图标下:






按下确认键[], 则会进入波形功能页面:



光标框在实时数据图标下, 按下确认键[], 则会进入实时波形页面:



其中，横坐标是时间，单位秒；纵坐标是温度，单位℃或°F（根据用户设置自动切换）。页面随着时间的推移，会显现出温度/时间曲线，此时按下确定键[  ]可以暂停实时波形记录，再次按下确定键[  ]，即可恢复实时波形记录，“存一”代表当前数据存储在第一个历史波形中，当时间超出150秒后，会自动跳到存二，以此类推，直到存满八组数据后，设备停止存储，并发出嘀嘀声提醒用户。若波形显示过程中，按下切换键[  ]退出了波形显示页面，则下次进入时，依然从该存储页面继续存储。


### • 历史波形

当光标框在历史记录图标下：



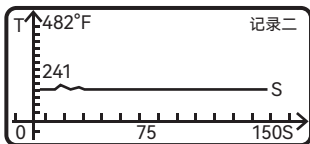
按下确认键[  ]，则会进入历史选择页面：



按切换键[  ]，可以切换各个历史记录目录，共有八条记录选项：



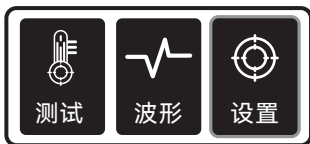
若光标框在记录二图标处，按下确认键[  ]，则会进入历史波形页面：



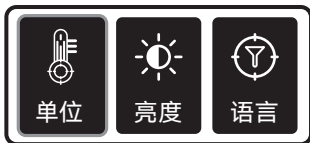
再次按下切换键[>], 回到主页面。

## • 系统设置

当光标框在设置图标处：



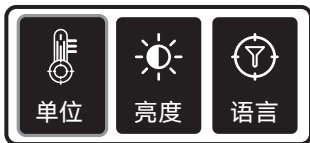
按下确认键[>], 则进入系统设置页面：



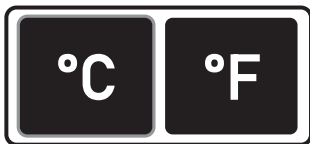
可设置温度单位、背光亮度、系统语言等设置。



## • 温度单位

在系统设置页面下，当光标框停留在单位图标处：



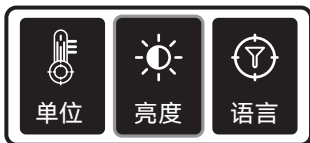
此时按下确认键[]，则进入温度单位选择页面：




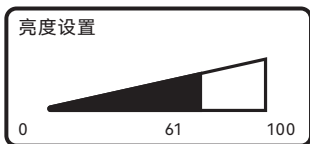
用户可以通过切换键[]来选择合适的单位，然后按下确认键[]来保存设置，保存后将直接跳转到主页面。




### • 背光亮度

在系统设置页面下，当光标框停留在亮度图标处：



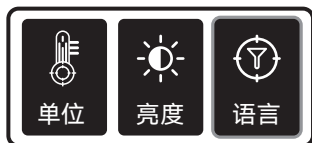
此时按下确认键[]，则进入背光调节页面：



单击确认键[]调节背光强度，长按确认键[]可快速调节。调节完成后，按下切换键[]保存并退出亮度设置，并自动跳转到主页面。



### • 系统语言

在系统设置页面下，当光标框停留在语言图标处时：



此时按下确认键[]，则会进入系统语言设置页面：



按切换键[]来切换系统语言，按确认键[]来选择并保存系统语言，设置完成后，屏幕自动跳转到主页面。



## 维修保养服务

---

- 您所拥有的AUTOOL产品选用持久耐用的材料，AUTOOL坚持精益求精的生产工艺，每一件产品出厂都经过35道工序及12次质检工作，从而确保每一件产品都拥有卓越的品质及性能。所以您的AUTOOL产品值得您定期维护保养，使其将能够长期稳定地工作。
- 

## 维修保养

维护保养是为了保持产品性能和外观，我们建议您仔细阅读以下产品保养指南：

- 注意不要将产品与粗糙表面摩擦或揉搓产品，特别是钣金外壳。
- 对产品中需要紧固和连接的部位经常进行检查，如发现松动应及时紧固，以保证产品的安全运行。对与各种化学介质接触的产品外部和内部零件要经常进行除锈、喷漆等防腐处理，以提高产品的抗腐蚀能力，延长产品的使用寿命。
- 遵守安全操作规程，不超负荷使用产品。产品的安全防护装置齐全可靠，及时消除不安全因素。电路部分彻底检查，老化电线要及时更换。
- 定期清洗和更换油泵、滤油器等易耗部件；调整各部位配合间隙和更换磨损（已坏）部件清洁时，避免产品接触带腐蚀性的液态物品。
- 不使用时，请将产品存放于干燥的位置。不要将产品存放在高温、潮湿或不通风的地方。

## 保修服务

- AUTOOL主机自客户签收日起享有3年保修期。其所含附件自客户签收日起享有1年保修期。

## 保修方式

- 根据具体的故障情况对产品进行免费修理或更换；
- 我方保证所有更换的部件、附件或产品都是全新；
- 在客户收到产品90天内出现故障同时提供视频和图片，我方承担运费并免费提供相应配件给客户更换。收到产品超过90天，客户承担相应的费用，我方免费提供配件给客户更换；

### 以下情况不在免费保修范围：

- 非正规渠道购买AUTOOL的产品；
- 未按产品说明书要求使用和维护造成的损坏；

在AUTOOL，我们为精湛的设计和卓越的服务感到自豪。我们很乐意为您提供更多的支持或服务。

## 声明

- 偶然公司保留更改产品设计与规格的权利，届时恕不另行通知。实物外观与颜色可能与说明书中显示的有差别，请以实物为准。我们已尽最大努力力求使书中所有描述准确，但仍难免有不妥之处。如有疑问，请联系经销商或偶然售后服务中心。本公司对产品拥有最终解释权，不承担任何因误解而产生的后果。

## 退换货服务

### 退换货

- 如果您对从线上授权购物平台和线下授权经销商所购买的AUTOOL产品不满意，根据《AUTOOL全球销售条款》，您可以自收到产品之日起七日内退货；或者在产品交付之日起的30日内调换等值的其他产品。
- 退回及调换的产品必须处于完全可销售状态，并附上相关销售单单据，所有相关配件、纸质发票（如有）。
- AUTOOL将会对寄回退货的商品进行检查，以确保其处于完好无损的状态并且符合条件，相关条件详情请参阅《AUTOOL全球销售条款》。任何未通过检查的商品将退还给您，您将不会获得商品退款。
- 您可以通过客户服务中心或AUTOOL授权经销商调换产品；退换货原则为从哪里购买，就从哪里退换货。如果您退换货遇见困难或者阻碍，请联系AUTOOL客户服务中心。通过客户服务中心退换货时，我们建议您通过下面的方式进行：

中国区域致电	400-032-0988 / 18929303778
售后微信号	18929303778
海外区域致电	+86 0755 23304822
E-mail	aftersale@autooltech.com
Facebook	<a href="https://www.facebook.com/autool.vip">https://www.facebook.com/autool.vip</a>
YouTube	<a href="https://www.youtube.com/c/autooltech">https://www.youtube.com/c/autooltech</a>

- 如您的退换货得到确认，您将收到确认信息和邮件。