

Serial Port Use Display Interface

The serial data cable is connected to the thermometer and the computer. The thermometer displays 'COM' as shown in Fig 1-6. Use computer to open the Serial Port Assistant. The thermometer will send temperature data to the Serial Port Assistant every 100ms.

The Serial Port Assistant driver can be downloaded from the official website or by contacting the manufacturer for further assistance.

Note: Before using the Serial Port Assistant, make sure to install the CH340 chip driver on your computer. (Please download from the internet)



INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.

When this product has reached the end of its life it must be treated as Waste Electrical & Electronics Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Contact your local authority for details of recycling schemes in your area.

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Made in China LS12 2QQ PO Box 13362 Dublin 2 Man Rev 1.1

multicomp <u>PRO</u>

Specifications

Model	MP741058			
Resolution	1°C/1°F			
Temperature range	0-800°C/32-1472°F			
Accuracy Temperature	±5°C/±9°F			
Sensing wire	K-type thermocouple			
Display	LCD			
Power	9V DC High-performance carbon battery			
Operating environment	0°C~40°C/32°F~104°F			
Size	75x143.5x41.5mm			
Weight	≈185g			



Instructions

1. Open the battery cover on the back of the instrument, insert the batteries correctly, and then close the battery cover. **Note:** Ensure the correct connection when inserting the batteries.

2. Pushing the knob forward and backward to adjust the position of the rod. Insert the sensor into the rod and terminal (red into the red terminal, blue into the blue terminal).

Please install correctly according to the indicated colors, as incorrect installation may result in inaccurate temperature measurement.

BBB C existing room temperature

3. Short press the 'POWER' button to power on, check the display screen, and when the display screen shows room temperature (as shown on the right), proceed with operations or measurements.

Temperature Measurement Procedure

1. Before measuring the soldering iron tip temperature, make sure to clean any residue from the tip.

2. When conducting the measurement, place the soldering iron tip on the temperature-sensing point. Add a sufficient amount of solder wire to ensure good contact with the sensing point. During temperature measurement, lay the soldering iron tip flat on the test point (as shown on the right).

3. Wait for reading until the thermometer's screen to display a stable temperature, indicating that the current soldering iron tip temperature measurement is complete.

4. If the reading on the thermometer keeps changing, it may be due to the following reasons:

① The soldering iron tip is moving: ② The sensor is damaged; ③ There is too much airflow around the soldering iron tip

5. If solder wire residue accumulates on the sensor measuring terminal, utilize a desoldering tool or desoldering wick to clear the residue.

6. When not in use, press and hold the 'POWER' button to turn off the thermometer.

Precautions

- 1. The sensor is made of very thin (ϕ 0.2mm) metal wire. It should be used with care and not bend or break.
- 2. The housing of the thermometer is made of plastic. Do not touch the tip of the soldering iron.
- 3. The sensor is a consumable item (life of about 50-60 times), long time use, the alloy layer is worn out, the measurement will be inaccurate, and need to be replaced new sensor.
- 4. Alcohol can be used to clean the solder wire attached to the terminal. Do not use thinner or volatile oil.
- 5. If the display shows -1, it means that the temperature sensor has been scrapped (or no sensor is installed) and a new one needs to be replaced.
- 6. If it displays ____, it means the battery is low, and the temperature cannot be measured normally, and the battery needs to be replaced. It is recommended remove the battery if not to use it for a long time .
- 7. The 191-212 temperature sensor is only suitable for measuring the temperature below 500°C, such as measuring higher temperature, please use the appropriate Temperature probe.

8. Do not blow the hot air gun directly to the MP741058 for measurement. Blowing directly will damage the MP741058 host. Note: Thermocouple and external temperature sensing wire cannot be used at the same time.

(10)

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9

COM CAL MAX HOLD

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888

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LCD Show

1 Negative characters

- 2 Infrared IR function characters
- 3 Serial port function characters
- (4) CAL function character
- (5) Characters of maximum temperature hold function
- 6 Temperature unit Fahrenheit
- Temperature unit Celsius
- 8 Counting function display
- (9) Main window display: display temperature and other data
- 10 Battery voltage is low symbol

Package List

Host MP741058 1pc	Sensor	10	pcs	MINI USB data line	1pc
Battery 1pc			K-type thermocouple test wire		1pc

(1)

Function Introduction

1. Switch function

Short press the "POWER" button to turn on, the display shows the room temperature when turning on; you need to long press the "POWER" button to turn off

2. Low battery display interface

When the battery power is low, the low battery symbol is displayed in the upper left corner, (Fig 1-1) prompting that the battery needs to be replaced as soon as possible to avoid affecting the use (Low battery temperature measurement is not accurate).

3. The highest temperature to maintain the interface

Short press the "MAX HOLD" key to open the maximum temperature hold interface, as shown in (Fig 1-2), short press again to close and return to the working interface.

4. Automatic shutdown function

Long press the "MAX HOLD" key to enter (Fig 1-3), the "POWER" key shortens the time, and the "SEND"key extends the time. After the setting is completed, long press the "MAX HOLD" button to exit and return to the working interface.

When the thermometer is not in use, it enters the shutdown status according to the set shutdown time (default 15 minutes, 1~240 mins can be set), the thermometer automatic shut-down.

5. Temperature unit switch setting interface

Long press the "MAX HOLD" key to enter (Fig 1-3), press the "MAX HLOD" key again to enter 1-4, and press the "SEND" key. to switch °C/°F; after switched, long press the "MAX HOLD" key to exit and return to the working interface.

6. The display interface of the number of times the sensor wire is used

Each time the temperature is tested, the upper right display area of the main window will increase thenumber of times, up to 999 times, long press "RESET" combination key can be reset to zero times. (When used 50 times, it flashes to prompt to replace the sensing wire)

7. Fig1-5: the sensor wire is damaged or there is no sensor wire display interface.

088



Infrared Temperature Calibration

1. Before using the infrared temperature calibration function, ensure that the device to be calibrated for temperature has its infrared function turned on. (This feature is only supported by models with infrared temperature calibration function)

2. The infrared emitter of the thermometer needs to be aligned with the infrared receiving port of the device being calibrated. It is recommended to maintain a distance of 10cm to 30cm.

3. During calibration, clean any residue from the soldering iron tip and place the soldering iron tip on the temperature-sensing point. Add a certain amount of solder wire to ensure good contact with the sensing point. Once the temperature displayed on the thermometer's screen stabilizes, press the 'SEND' button on the thermometer briefly.

The screen will display the 'IR' character. If the temperature displayed on the device being calibrated matches the temperature displayed on the thermometer, the calibration is complete (as shown in the image below).





(Fig 1-2)







088

MAX HOLD

NFF



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