



- Tip thermometer providing reliable temperature control of soldering iron tips
- Compact design saves your workspace and allows you to easily carry it around
- Extremely fine sensor with high temperature reactivity is incorporated

Packing List

Part No.	Packing List
FG100	Main body FG-100, 006P 9V Manganese dry battery, Instruction manual, Sensor (10 pcs/set) 191-212

*Battery is trial on indication of the packing list.

HAKKO FG-100 should be calibrated regularly as a Meter/Tester.
For details, please [contact us](#) or the distributors in your country.

Specifications

Model No.	FG100
Power supply	006P 9V dry battery
Dimensions	68(W)×140(H)×38(D) mm
Weight	115g
Temperature resolution	1°C
Temperature measurement range	0-700°C
Temperature precision	±3°C (300-600°C) ±5°C (other than above)
Temperature sensor	K (CA)type thermocouple
Display	Besides measured temperatures, display indications include the following: - Battery low alarm - Burnout alarm

Model No.

FG100

- Operating environment** - MAX HOLD : 'MAX HOLD' is displayed at the lower right of the LCD.
Ambient temperature/humidity range : 0-40°C, 20-90%RH (without condensation)
- Environmental condition** Applicable rated pollution degree 2 (According to IEC/UL 61010-1)

- * Dimensions : excluding protrusions
- * Weight : excluding battery
- * When battery low alarm appears, be sure to replace the battery. Failure to do so will result in incorrect temperature measurements.

HAKKO FG-100 Display Example



Features

Surely and easily Temperature control

- Suitable for Lead-Free Solder
 - Good temperature response using a fine CA wire sensor ($\phi 0.2\text{mm}$)
 - Disposable sensor always maintains accurate temperature measurement (Replace sensor when the measuring point underwent degradation)
 - Sensor has the twice service life than conventional ones.
- Dimensional Measurement
 - Allows you to measure from any desired direction according to tip shape



*Design image only

- Auto Shut-Off Function
 - If no measurement operation is performed within 3 minutes, the power will be automatically shut off.

- ❖ MAX HOLD Function
 - When the button "MAX HOLD" is pressed, "MAX HOLD" will be displayed and the highest temperature of Iron will be held in the display.



- ❖ Easy-to-read temperature
 - Large and clear display
 - Digital temperature display make to read it accurately
- ❖ Compact Size
 - Convenient to carry and saves your workspace

Usage / Applications

❖ Initial display (room temperature) appearing when the power is turned ON

It is not necessary to deduct the room temperature that was displayed when the power was turned ON from the measured temperature. The temperature appearing on the LED display is the actual measured value.

❖ Guaranteed temperature range with the measurement tolerance of $\pm 3^{\circ}\text{C}$

In general, the optimal temperature range for soldering is 300°C to 500°C , and that for SMD rework system is 300°C to 600°C . The tolerance of $\pm 3^{\circ}\text{C}$ within the optimal temperature range (300°C to 600°C) is assured. For the temperature range other than the above, the tolerance is not guaranteed but usually stays in the range of about $\pm 5^{\circ}\text{C}$.

Replacement Parts

Part No.	Name	Specifications
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191-212	Sensor lead-free, set of 10	
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Change-out rate of sensor

The sensor replacement period is about 50 times per single sensor in general, but this changes depending on the temperature used and the components in the solder and flux.





If you use lead-free solder, the sensor needs to be replaced more frequently.

If the sensor degrades because it is being eaten away by the solder, it will register a low temperature. Even if the sensor is not broken, replace it after about 50 measurements.

Even if the soldering tip has degraded, the temperature will register extremely low. Keep these points in mind and decide on the sensor replacement period.

Caution: The sensor is extremely thin and may break if pushed with force.

Option

	Part No.	Name	Specifications
	A1310	Temperature probe	for soldering bath & pot
	C1541	Temperature probe	hot air
	A1556	Sensor A	
	A1557	Sensor B	

A1310



C1541

