

HAKKO FG-100

THERMOMETER

Soldering Iron Thermometer



- Tip thermometer that provides reliable temperature control of soldering iron tips
- Compact design minimizes your workspace and enables you to easily carry it around.
- Incorporating an extremely fine sensor that has high temperature reactivity.

HAKKO FG-101

SOLDERING TESTER

Soldering Iron Tester

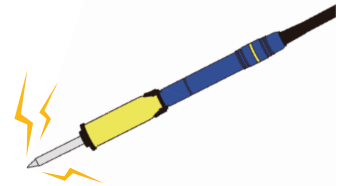


- Tip temperature, leak voltage, and tip-to-ground resistance can be easily measured with high accuracy.
- Soldering iron tester useful for daily maintenance of station-type soldering irons

What is leak voltage and tip-to-ground resistance?

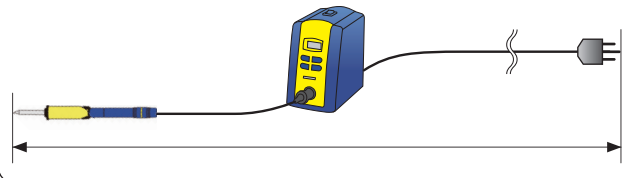
Leak voltage

Leak current is the current that leaks from the tip to a board or device. Leak voltage is a specific measurement of the level of this current. The leakage can adversely affect delicate devices, so it is necessary to check leak voltage on a daily basis.



Tip-to-ground resistance

Most leak current flows from the tip via the ground wire to the outlet ground terminal, and is prevented from affecting the device. Because of this, tip-to-ground resistance is another important issue that must be checked daily.



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Common Features of FG-100 and FG-101

Dimensional measurement



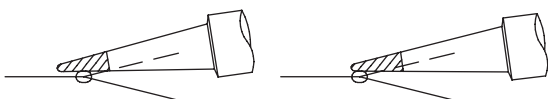
*Design image only

MAX HOLD function

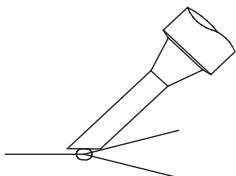
When the “MAX HOLD” button is pressed, “MAX HOLD” is displayed and the highest tip temperature is held on the display.



Procedure for Measuring the Soldering Tip Temperature



- Typical measuring point for Shape B, I and D (Measure at the center of the tin coated area)



- Typical measuring point for Shape BC and C which are tinned flat only.

Option / Replacements

Part No.	Name	Specifications
A1310	Temperature probe	For solder bath and pot
C1541	Temperature probe	For hot air
A1556	Sensor A	-
A1557	Sensor B	-
191-212	Sensor/10 pcs	-

Packing List

FG-100	Unit, 006P 9 V Manganese dry battery (for trial), Instruction manual, Sensor (10 pcs)
FG-101	Unit, Fuse, Conduction wire, Sensor (10 pcs), Multi-adapter, European adapter, Ground clip, Power cord, Instruction manual

Specifications

Model No.	FG-100
Power supply	006P 9 V dry battery
Temperature resolution	1°C
Temperature measurement range	0 to 700°C
Temperature precision	±3°C (300 to 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 MAX HOLD “MAX HOLD” is displayed in the lower right of the LCD.
Operating environment	0 to 40°C, 20 to 90%RH (without condensation)
Environmental conditions	Applicable rated pollution degree 2 (according to IEC/UL 61010-1)
Dimensions**	68 (W) × 140 (H) × 38 (D) mm
Weight***	115 g

* When the battery low alarm appears, be sure to replace the battery. Failure to do so will result in incorrect temperature measurements.

** Excluding protrusions

*** Excluding battery

Model No.	FG-101
Power consumption	2.6 W (100 V), 2.9 W (110 V), 2.6 W (120 V), 2.7 W (220 V), 2.8 W (230 V), 3.0 W (240 V)
Temperature resolution	1°C
Temperature measurement range	0 to 700°C
Temperature precision	±3°C (300 to 600°C) ±5°C (other than above)
Temperature sensor*	K (CA) type thermocouple
Voltage resolution	0.1 mV
Voltage measurement range	0 to 40 mV (CA)
Voltage precision	± (5% of reading + 1 digit)
Resistance resolution	0.1Ω
Resistance measurement range	0 to 40Ω
Resistance precision	± (5% of reading + 1 digit)
Display**	LCD: 3 1/2 digits Burnout: -1 MAX HOLD: “MAX HOLD” is displayed in the lower right of the LCD.
Operating environment	0 to 40°C, 20 to 90%RH (without condensation)
Environmental conditions	Applicable rated pollution degree 2 (according to IEC/UL 61010-1)
Dimensions	200 (W) × 50 (H) × 120 (D) mm
Weight***	1 kg

* The temperature sensor (No.191-212 or No.191-212C) can only be used to measure temperatures below 500°C. To measure higher temperatures, use an applicable temperature probe.

** When a sensor is not attached or it burns out, the Burnout (-1) alarm symbol is displayed. The same symbol is also displayed when a temperature outside the measurement range is detected.

*** With power cord