

HAKKO FG-100



Enables you to perform temperature control surely and easily, which is essential during lead-free soldering.

- Suitable for Lead-Free solder:- Quick and accurate tip temperature measurement using a fine CA wire sensor (Dia.0.2mm). Disposable sensor always maintains accurate temperature measurement. Long service life.
- MAX HOLD function
- Auto shut-off function
- Compact size

3-Dimensional Measurement



Allows you to measure from any desired direction according to tip shape.



HAKKO FG-101



- Tip temperature, leak voltage and ground resistance of soldering irons can be measured.
- Soldering irons can be controlled based on the MIL-HDBK-263B standard.
- Soldering irons can be controlled based on the IPC J-STD.
- MAX HOLD function
- Leak voltage and ground resistance can be easily measured.



Specifications

HAKKO FG-100	
Resolution	1°C
Temperature measurement range	0-700°C
Applicable sensor	K (CA) type thermocouple
Measurement tolerance	±3°C (between 300 and 600°C)
Display	Besides measured temperatures, display indications include the following:
	Battery low alarm <sup>*1</sup>
	Burnout alarm <sup>*2</sup>
Power Supply	006P 9V dry battery (alkaline cell recommended)
Outline dimensions	68(W) x 140(H) x 38(D)mm (excluding protrusions)
Weight	115g (excluding battery)
Ambient temperature/humidity range	0-40°C, 20-90%RH, (Non condensing)
Environmental Condition	Applicable rated pollution degree 2 (According to IEC/UL61010-1)

<sup>\*1</sup> When appears, be sure to replace the battery. Failure to do so will result in incorrect temperature measurements.

<sup>\*2</sup> This alarm indicates a sensor burnout. If this alarm occurs, replace the sensor.

HAKKO FG-101		
Temperature	Resolution	1°C
	Measurement Range	0-700°C <sup>*1</sup>
	Precision	±3°C (between 300 and 600°C)
Voltage	Sensor	K (CA) type thermocouple
	Resolution	0.1mV
	Measurement Range	0 to 40mV (AC)
Resistance	Precision	±(5% of reading +1 digit)
	Resolution	0.1Ω
	Measurement Range	0 to 40Ω
Display	Precision	±(5% of reading +1 digit)
	LCD	3 1/2 digits
	Over Range <sup>*2</sup>	
Power Consumption	Burnout <sup>*3</sup>	
	MAX HOLD	Shown as "MAX HOLD" in the lower right on the display
	2.8W (230V)	
Dimensions	200(W) x 50(H) x 120(D)mm	
Weight	1kg	
Ambient Temperature/Humidity Range	0-40°C, 20-90%RH (Non condensing)	
Environmental Condition	Applicable rated pollution degree 2 (According to IEC/UL61010-1)	

<sup>\*1</sup> Temperature sensor (No.191-212) can only be used to measure temperatures below 500°C. To measure higher temperature, use an applicable temperature probe.

<sup>\*2</sup> An Over Range alarm occurs during temperature measurement when the temperature sensor is not attached, and during voltage and resistance measurement when the tip is not in contact with the conduction plate.

<sup>\*3</sup> When a sensor burns out, the same alarm symbol as the one for Over Range alarm is also displayed. If this alarm occurs, replace the sensor.

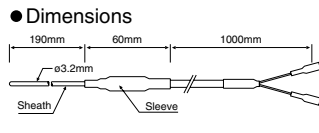
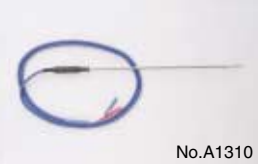
Packing List

Model Name	Contents
HAKKO FG-100	Thermometer .....1
	006P 9V battery .....1
	Sensor .....10
HAKKO FG-101	Soldering tester .....1
	Fuse .....1
	Conduction wire .....1
	Multi-adapter .....1
	Ground clip .....1
	Power cord .....1
	Sensor .....10

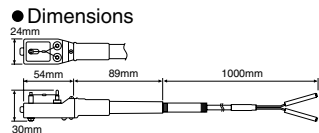
Temperature Probe

For measuring the temperature of solder in pots, automatic solder machine and hot air.

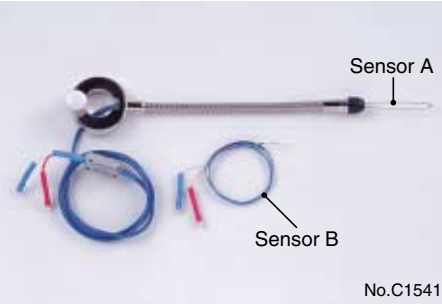
For Solder in Pots



For Automatic Solder Machine

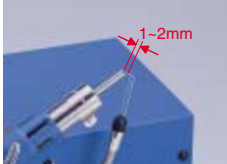


For Hot Air



- Sensor A  
Sensor A is primarily used to measure the temperature of hot air.
- Sensor B  
Sensor B is primarily used to measure the temperature of works.

How to use 1 Hot Air (FR-803B)



How to use 3 Works



How to use 2 Hot Air (SMD-BGA Repair System)

