

## 6. REPLACEMENT PARTS AND OPTIONS

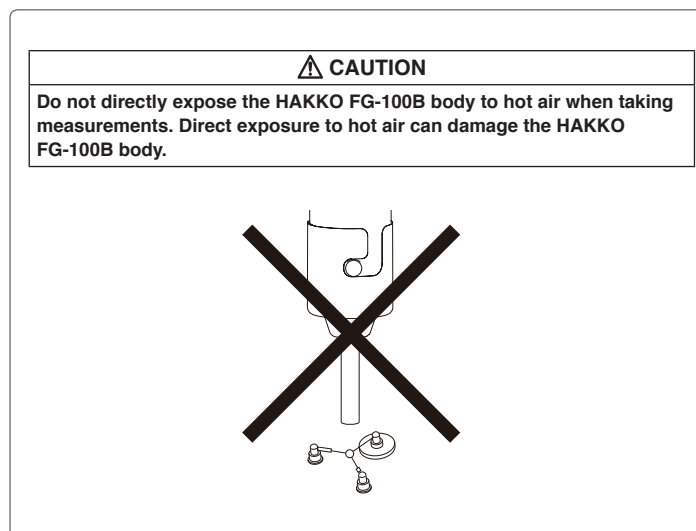
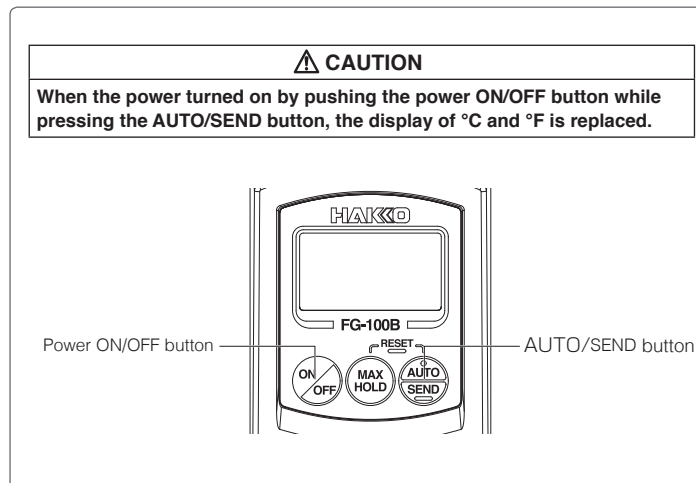
### ● Replacement Parts

Item No.	Part Name	Specifications
191-212	Sensor / Lead-free	qty 10.

### ● Options

Item No.	Part Name	Specifications
A1310	Temperature probe/soldering pot	
C1541	Temperature probe/hot air	with sensor A/B
CX1002	Temperature probe/robot	
A1556	Sensor A	
A1557	Sensor B	

\* Remove the sensor, and connect the red connector of this option to the red terminal of the thermometer and the blue connector to the blue terminal.



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\* Instruction manual in the language of Japanese, English, Chinese, French, German, and Korean can be downloaded from the HAKKO Document Portal.  
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# THERMOMETER

## FG-100B

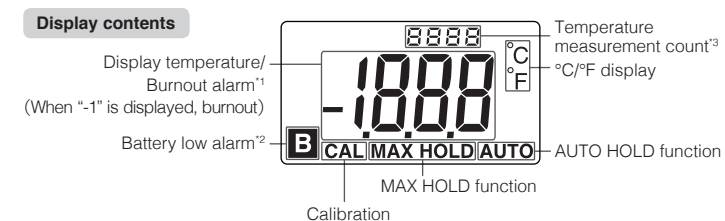
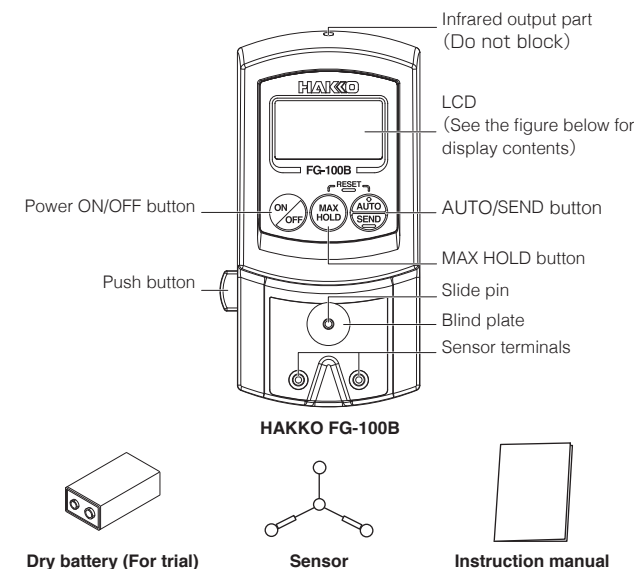
### Instruction Manual

Thank you for purchasing the HAKKO FG-100B thermometer.  
Please read this manual before operating the HAKKO FG-100B.  
Please keep this manual readily accessible for reference.

## 1. PACKING LIST AND PART NAMES

Please check to make sure that all items listed below are included in the package.

HAKKO FG-100B..... 1 Sensors (qty 10) ..... 1  
006P 9V Dry battery (For trial) ..... 1 Instruction manual..... 1



\*1 This alarm indicates a sensor burnout. If this alarm occurs, replace the sensor.  
\*2 When **B** appears, be sure to replace the battery. Failure to do so will result in incorrect temperature measurements.  
\*3 When pressing the **MAX HOLD** and **AUTO** button for longer, the count is reset.

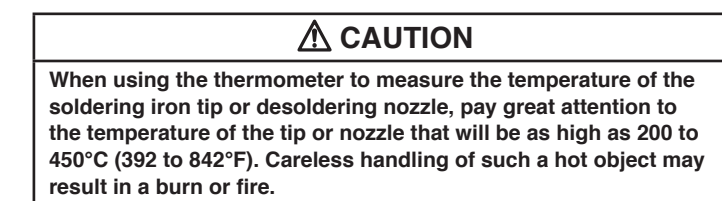
## 2. SPECIFICATIONS

Type	Celsius type	Fahrenheit type
<b>Model name</b>	HAKKO FG-100B	
<b>Resolution</b>	1°C	1°F
<b>Temperature measurement range</b>	0 - 700°C <sup>1</sup>	32 - 1,300°F <sup>1</sup>
<b>Applicable sensor</b>	K (CA) type thermocouple	
<b>Measurement tolerance</b>	±3°C (between 300 and 600°C)	±6°F (between 572 and 1,112°F)
<b>Power supply</b>	006P 9 V dry battery (alkaline cell recommended)	
<b>Outline dimensions</b>	75 (W) × 44 (H) × 140 (D) mm	
<b>Weight</b>	125 g (excluding battery)	
<b>Operating environment</b>	Ambient Temperature/Humidity Range: 0 to 40°C (32 to 104°F), max.80% RH (without condensation)	
<b>Environmental conditions</b>	Applicable rated pollution degree 2 (according to IEC/UL61010-1)	

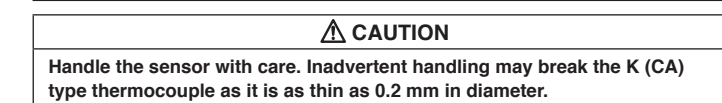
\*1 Sensor (191-212) can only be used to measure temperatures below 500°C (932°F).  
To measure higher temperatures, use an applicable temperature probe (see "6. REPLACEMENT PARTS AND OPTIONS").

The specifications may be subject to change without notice.

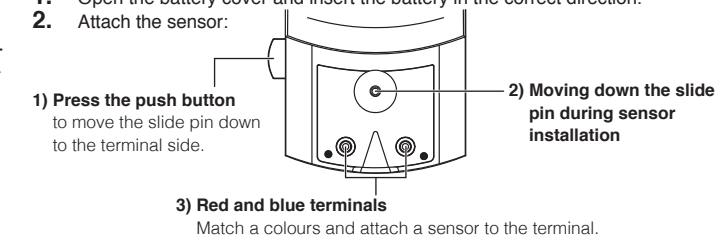
## 3. SAFETY NOTICE



## 4. OPERATION



- Open the battery cover and insert the battery in the correct direction.
- Attach the sensor:

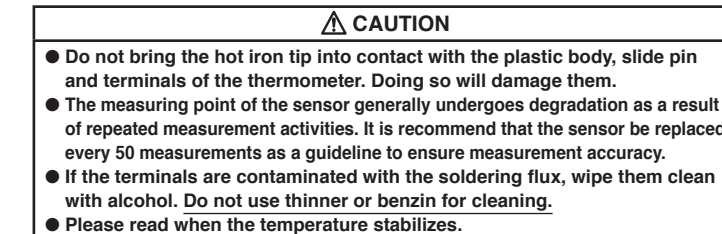


- Turn on the power. When the room temperature appears on the LCD, the thermometer is ready for measurement.

**— NOTE —**

- Pressing the power button for a short duration may result in failure to turn on the power. In such a case, press the button again for a longer duration.
- The power cannot be turned off until all screen elements are displayed after the power is turned on.

- Wet the soldering iron tip with solder and put the tip to the measuring point.



## 5. FUNCTION AND OPERATION OF EACH BUTTON

● **Auto shutoff function**  
If no measurement is taken within three minutes after power on, the power will be turned off automatically. Measurement of a temperature higher than 100°C (212°F) within three minutes will reset the auto shutoff. To turn on the power, press the power button again.

● **MAX HOLD function**  
When quickly pressing the **MAX HOLD** button (less than 1 second), "MAX HOLD" is displayed at the lower of the screen. As long as "MAX HOLD" appears, the maximum temperature will stay displayed

The **MAX HOLD** button has the following other functions.

● When "MAX HOLD" is displayed, quickly pressing the **MAX HOLD** button (less than 1 second) displays the updated maximum temperature.

● When "MAX HOLD" is displayed, pressing the button for longer (1 second or longer) releases the MAX HOLD function and returns to normal display.

### ● AUTO HOLD function

When quickly pressing the **AUTO** button, "AUTO" blinks at the lower right of the LCD. While "AUTO" blinks, touch the soldering iron tip to the sensor. After detecting the stabilization of the temperature of the tip, the average temperature will be calculated. After the average value has been calculated, "AUTO" will stop blinking and stay lit, and the calculation result will be displayed.

Each time the **AUTO** button is pressed, the AUTO HOLD function toggles between ON and OFF.

The AUTO HOLD function does not assume the measurement by temperature probes such as the hot air.

### ● Temperature sending function

Press the **AUTO** button for longer than one second. Temperature data will be sent by infrared output from the upper part of the thermometer. Temperature display blinks during sending.

The temperature sending function can only send messages to the receiving machine. When the fixed value can be sent.

