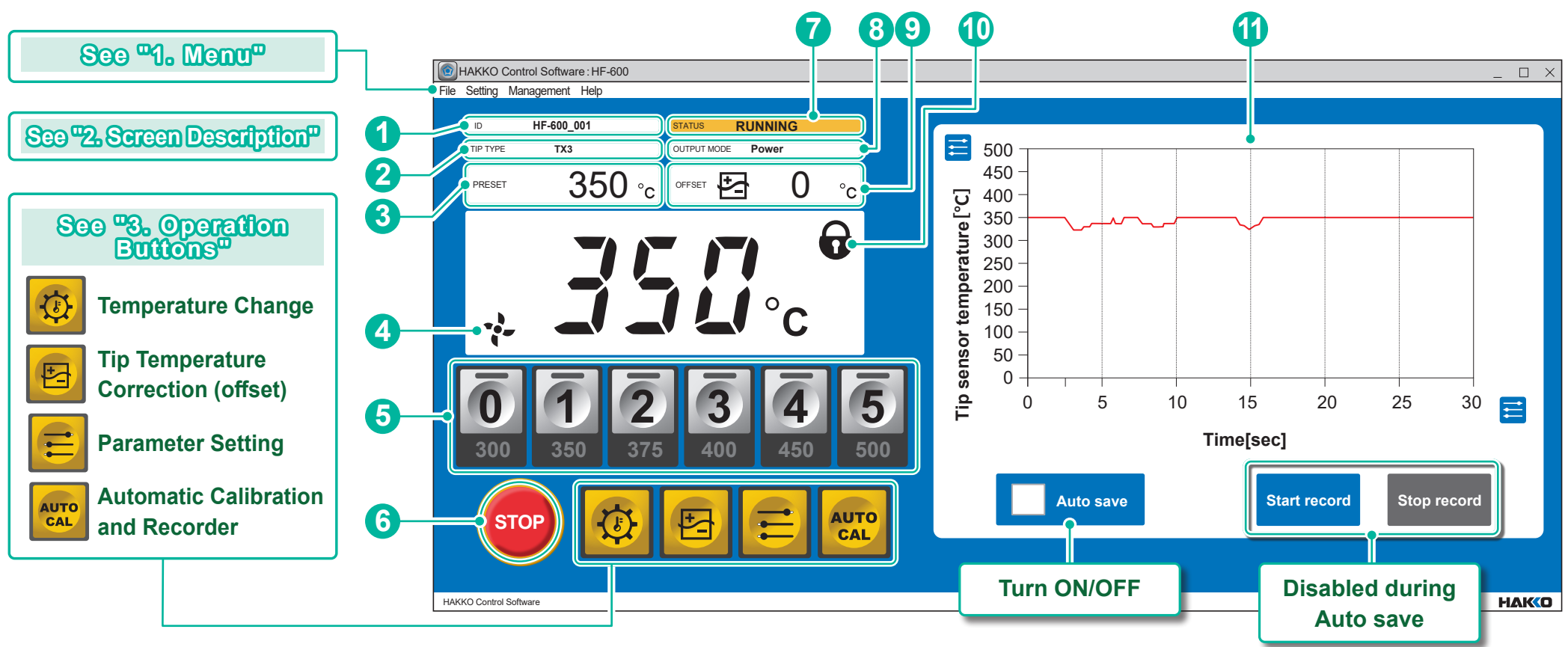


HAKKO Software HF-600 Operation manual



2. Screen Description

1 Connection unit name is displayed.
The connection unit can be named in the section [ID] of the Parameter Setting button.

2 The tip type in use is displayed.
The tip type will update automatically based on the tip.

3 The Setting Temp status is displayed.

Manual inputting temperature displays [SET TEMP]

Connection unit display

This can be done through the Temperature Change button.

Preset temperature displays [PRESET] and the preset number.

Preset number

Connection unit display

You can change the Setting Temp manually or by selecting one of the preset temperature buttons.

4 This is displayed when using internal fan cooling.

5 The temperature registered for each preset number is displayed.
The preset temperatures can be changed in the [Temp Set Menu] of the Parameter Setting button.

Factory default setting temperatures:
No.0: 300°C(570°F)
No.1: 350°C(670°F)
No.2: 375°C(710°F)
No.3: 400°C(750°F)
No.4: 450°C(850°F)
No.5: 500°C(930°F)

Preset number

Registered temperature

Selectable Unselectable

The preset temperature selection status is shown by the button color.

6 Used when you want to turn off power to the heating element.

- Clicking [STOP] will turn off the power to the heating element and the screen will display [RESTART].
- Clicking [RESTART] will turn on the power to the heating element and the screen will display [STOP].

7 The operating status of the connection unit is displayed.

| RUNNING | EMERGENCY |
|---|---|
| Operating normally | Power to the heating element is OFF |
| GRIP ERROR | SENSOR ERROR |
| Inapplicable handpiece connected or the handpiece is disconnected | Tip heating element/sensor not detected |
| HEATERSHORT ERROR | NO CONNECTION |
| Inapplicable tip inserted | Connection unit is turned OFF or the main unit is not connected to the PC |
| TIP DETECTION ERROR | ZEROCROSS ERROR |
| Inapplicable tip detected | Power supply abnormality or the main unit is damaged |

8 The selected output mode is displayed.
The mode can be changed in the [Output mode setting] of the Parameter Setting button.

9 The correction value (offset value) is displayed.
The offset can be changed using the Tip Temperature Correction button or the Automatic Calibration and Recorder button.

1. Menu

File

- Port selection**
Used to manually select Port Number.
- Exit**
Used when exiting software.

Setting

- Language:**
Japanese/English/Chinese
Select one of these languages.
- Display temperature unit: °C/°F**
Select the unit for temperature.

Help

- Connection unit version information**
Shows the connection unit firmware version.
- Version information**

Management

- File storage location:**
Parameter setting file/
Automatic calibration result file/
Tip sensor temperature monitor file
Select where files are saved.
NOTE By default, files are saved in the same location as software folder
- Tip sensor temperature monitor auto save: ON/OFF**
When set to [ON], the Tip sensor temperature will be recorded constantly and saved as CSV file.
NOTE Default is OFF.
- Tip sensor temperature monitor file split interval (minutes): 1 to 120**
Segments CSV files into multiple files based on minutes.
NOTE Default is 5 min.
- Log file: ON/OFF**
Operation logs can be recorded when operations or setting changes are performed on this app and unit.
NOTE Default is ON.

10 Displayed when the parameter setting change is locked.
This can be locked/unlocked in the [Lock Menu] of the Parameter Setting button.

The tip sensor temperature can be displayed on a graph.

- The graph data can be manually or automatically saved
Manually record: Pressing [Start record], pressing [Stop record] ends the recording
Recording with Auto save: Files will be saved depending on the value inputted in [Tip sensor temperature monitor file split interval (minutes)].
- Saved file name
During manual saving:HF-600TEMP_M_250101_093358.csv
During automatic saving:HF-600TEMP_250101_093358.csv
Date stamp of recording:January 1, 2025, 9:33:58

See [Management] in "1. Menu" for the storage location and the auto save timing.

11 The graph "Time axis" and "Temperature axis" settings can be changed
Click button to display the Setting screen.

| Time axis default | | Temperature axis default | |
|--------------------------|------------|-------------------------------|-------------|
| Length of time displayed | 30 seconds | Maximum Temperature Displayed | 500°C/950°F |
| Time Scale Interval | 5 seconds | Minimum Temperature Displayed | 0°C/0°F |
| | | Temperature Scale Interval | 50°C/50°F |

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3. Operation Buttons



Temperature Change

- Change the set temperature

NOTE If the temperature is changed here, the preset temperature selection is automatically canceled.



Tip Temperature Correction (offset)

(See "6-2. Operation" in the Instruction Manual)

- The tip temperature can be corrected with the following twomethods.

NOTE This will not function when the connection unit is in offset mode.

Manual input

- Measure the tip temperature
- Input the offset value
- Click the **[Confirm]** button
- Click the **[Close]** button

Using the HAKKO thermometer with the Temperature Sending Function

- Measure the tip temperature
- Send the measured temperature
- Click the **[Confirm]** button
- Click the **[Close]** button



Parameter Setting

(See "8.Parameter settings" in the Instruction Manual)

The current settings are highlighted in blue **A** and can be changed in the column to the right **B**. By clicking the **[Confirm]** button the buzzer will sound, and **[Sys]** or **[Set]** will display on the connection unit to show the settings have been updated.

- The settings can be saved or loaded as CSV files. Click the **[Save]** button to store the settings from **B**.

Default file name: HF-600-Parameter.csv

Click the **[Load]** button and select CSV file to input the settings, and then click **[Confirm]** to apply the settings.

* The file name is displayed in the upper left corner.



If the selected file name has an " * "...

When the **B** values are changed after loading, " * " mark will be added at the end of the file name.
Example: HF-600-Parameter.csv*

Parameter No. correspondence table

| Alarm Menu | | Lock Menu | |
|--------------------------|------------------|---------------------|------------------|
| Error Alarm | Parameter No. 05 | Parameter No. 14 | |
| Ready Alarm | Parameter No. 06 | | |
| Low Temp Alarm | Parameter No. 03 | Temp Set Menu | |
| Ready signal/delay time | Parameter No. 32 | Preset Temp | Parameter No. 23 |
| Cable Length Setting | Parameter No. 33 | Output Mode Setting | Parameter No. 12 |
| Heater power off setting | | | |
| ON/OFF | Parameter No. 40 | | |

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3. Operation Buttons(cont'd)



Automatic Calibration and Recorder

What is Automatic Calibration?

It is an operation to automate tip temperature management, and to save the proper calibration results.

- Automatically saves the calibration results when the calibration is completed
- Compiles one month of saved calibration results in one CSV file
File name: HF-600CAL_2025_03.csv

Product Name Calibration year and month

| Station ID | Handpiece | Tip Type | Date&Time | Result | Set Temp | Temp Lim | BeforeTemp | Alter Temp | Before Offset | Alter Offset | Earth Pot | Earth Res | Tip Chan |
|------------|------------------------|----------|-----------------|--------|----------|----------|------------|------------|---------------|--------------|-----------|-----------|----------|
| 1 | HF-600_001FU-6001/6002 | TX3 | 2025/3/13 13:44 | PASS | 340°C | +10~-10 | 0392°C | --- | -010°C | --- | --- | --- | OFF |
| 2 | HF-600_001FU-6001/6002 | TX3 | 2025/3/13 13:45 | PASS | 340°C | +10~-10 | 0392°C | --- | -010°C | --- | --- | --- | OFF |
| 3 | HF-600_001FU-6001/6002 | TX3 | 2025/3/13 13:45 | PASS | 340°C | +10~-10 | 0392°C | --- | -010°C | --- | --- | --- | OFF |
| 4 | HF-600_001FU-6001/6002 | TX3 | 2025/3/13 13:45 | PASS | 340°C | +10~-10 | 0408°C | --- | -010°C | --- | --- | --- | ON |

If a calibration was within the same month, it is sequentially saved to the same file.

Calibration procedure

Check this box if the Tip was replaced. This will allow you to know when the Tip was replaced when viewing the calibration result data or a graph.

- Set the conditions during Automatic calibration with the button.

Condition Setting

Temperature calibration range (plus) 1 °C ~ 25 °C

Temperature calibration range (minus) -25 °C ~ -1 °C

Number of retries 3

Tip to ground potential measurement setting OFF ON

Tip to ground resistance measurement setting OFF ON

Data Source CX5041 IR

Confirm Close

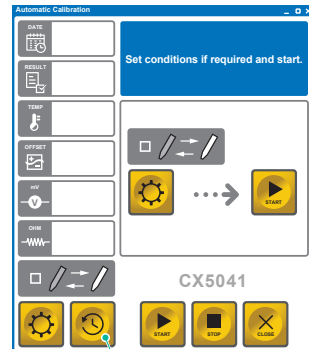
- Click the button and follow message **C** to calibrate.
Set the conditions during.

Calibration results

You may select one of the following search conditions.

- ID Search Search by specific ID
- Date Search Search by specific period by date
- Tip Type Search Search by specific Tip Type
- Number of histories Search number of recent histories

Procedure to display the calibration results



The following is an example for "Number of histories".

NOTE The calibration results can be displayed even if the connection unit is turned OFF.

- Click the **[Calibration results]** button to display the screen to input the search conditions.
- Input **[10]** in the **[Number of histories]** bar.

Calibration Result

ID (All) Date 2025/03/14 ~ 2025/03/14

Tip Type (All) Number of histories 10

Search Graph Close

- Click the **[Search]** button.
- The search results (latest 10 entries) are displayed.

Calibration Result

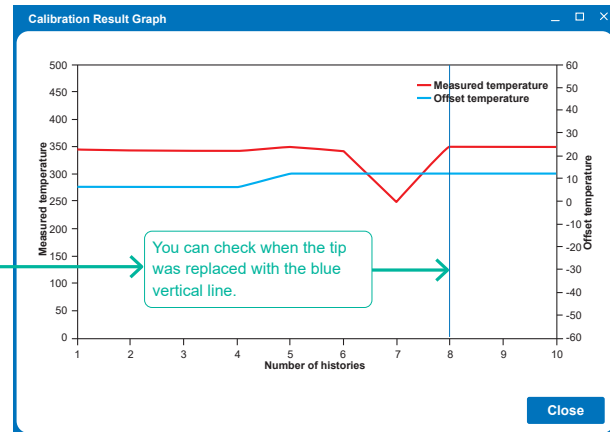
ID (All) Date 2025/03/14 ~ 2025/03/14

Tip Type (All) Number of histories 10

| ID | Handpiece | Tip Type | Calibration date | Calibration result | Setting Temp | Temperature calibration range | Measured temperature before calibration | Measured temperature after calibration | Offset before calibration | Offset after calibration | Tip to ground potential | Tip to ground resistance | Tip replacement flag setting |
|------------|--------------|----------|------------------|--------------------|--------------|-------------------------------|---|--|---------------------------|--------------------------|-------------------------|--------------------------|------------------------------|
| HF-600_001 | FU-6001/6002 | TX3 | 2025/01/26 13:56 | PASS | 350 °C | +10~-10 | 346 °C | --- | --- | --- | --- | --- | --- |
| HF-600_001 | FU-6001/6002 | TX3 | 2025/01/27 13:41 | PASS | 350 °C | +10~-10 | 343 °C | --- | --- | --- | --- | --- | --- |
| HF-600_001 | FU-6001/6002 | TX3 | 2025/01/28 13:50 | PASS | 350 °C | +10~-10 | 342 °C | --- | --- | --- | --- | --- | --- |
| HF-600_001 | FU-6001/6002 | TX3 | 2025/01/31 13:52 | PASS | 350 °C | +10~-10 | 342 °C | --- | --- | --- | --- | --- | --- |
| HF-600_001 | FU-6001/6002 | TX3 | 2025/02/01 13:50 | PASS | 350 °C | +10~-10 | 338 °C | --- | --- | --- | --- | --- | --- |
| HF-600_001 | FU-6001/6002 | TX3 | 2025/02/02 13:51 | PASS | 350 °C | +10~-10 | 341 °C | --- | --- | --- | --- | --- | --- |
| HF-600_001 | FU-6001/6002 | TX3 | 2025/02/03 13:51 | FAIL | 350 °C | +10~-10 | 250 °C | --- | --- | --- | --- | --- | --- |
| HF-600_001 | FU-6001/6002 | TX3 | 2025/02/04 13:51 | PASS | 350 °C | +10~-10 | 350 °C | --- | --- | --- | --- | --- | --- |
| HF-600_001 | FU-6001/6002 | TX3 | 2025/02/07 13:52 | PASS | 350 °C | +10~-10 | 349 °C | --- | --- | --- | --- | --- | --- |
| HF-600_001 | FU-6001/6002 | TX3 | 2025/02/08 13:52 | PASS | 350 °C | +10~-10 | 350 °C | --- | --- | --- | --- | --- | --- |

Search Graph Close

- Click **[Graph]** button.
- The 10 search results are graphed.



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