HAKKO Installing the software

1 Software

- The contents of this manual are subject to change without notice.
- The specifications of this software are subject to change without notice due to improvements.
- Reproducing or copying this document, in whole or in part, is prohibited.

2 Trademarks

System names, product names, and service names on this document are generally registered trademarks or trademarks of their respective developers.
This document does not include TM, (R) marks.

3 Disclaimers

We will assume that, by downloading and installing this software, the customer has agreed to the following disclaimers.

- We will bear no responsibility for any claims for losses, lost earnings, or claims by third parties due to operation of this software.
- We will bear no responsibility for any problems that result through download and installation of this software.
- The company retains all property rights, ownership rights, intellectual property rights, etc. related to this software.

4 Installing the Software

(1) Double-click the CD-ROM or the downloaded software.
File name: HAKKOControlSoftwareSetup X.X.X.X.exe

(2) Select the language and click [OK].

(3) After checking the License Agreement, select [I accept the agreement] and click [Next].

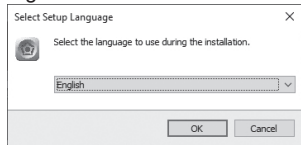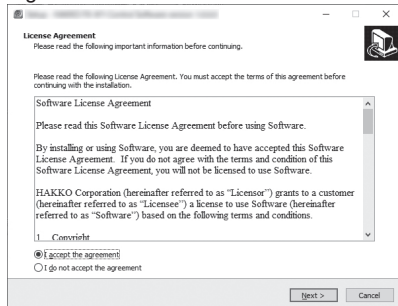Figure 1-1 Figure 1-2

(4) From here, follow the instructions on the screen.

(5) The software will automatically launch when the installation is completed. (Figure 1-3)

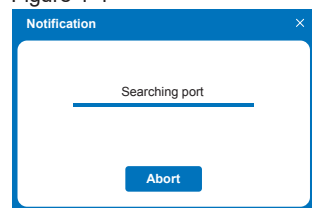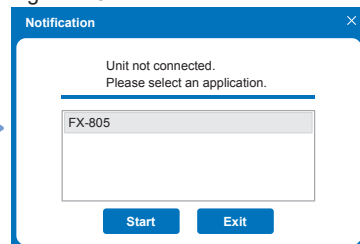(6) Click [Exit] to exit the software. (Figure 1-4/1-5)

Figure1-3

Figure 1-4

Figure 1-5

5 Connecting to a PC

(1) Connect the product to a PC with the included USB cable.

(2) Place the handpiece on the iron holder.

(3) Connect the station and the handpiece.

(4) Turn the station power switch ON.

(5) Launch the software.

NOTE If [- - -] appears on the display even after the PC is connected as shown in the right figure, turn OFF the station power switch and then turn it ON again.

NOTE Do not use a USB cable that is more than two meters long.

Main Unit

Included USB cable
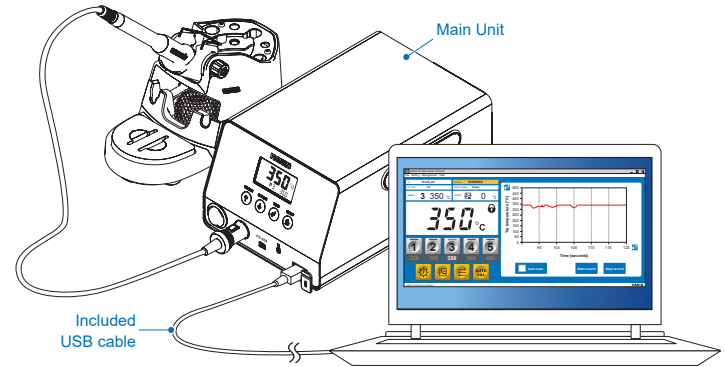
6 Software Updates

Follow the instructions below to download the latest software.

(1) Go to [Customer Support > support and services > login and new user registration] on the HAKKO website.

https://www.hakko.com/doc_support-e

(2) Log in, or create an account.

(3) Click [My page (Product registration from here)] to register the product.

NOTE Product must be registered to download software.

(4) Click [Download of Product Data] under the menu.

Menu	About HAKKO	Location	Contact us	JP / EN
Information		Download of Product Data		
		Login/Sign up		
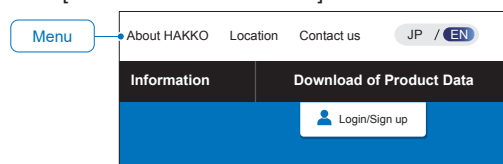
(5) Select [Software] under the various resource search options.

(6) Input the product name as the keyword.

(7) Select the language and click [Search with these conditions].

(8) Click [Download] in the search results.

2022.06
96.0005-002

1. Menu

File

— **Port selection**
Used to manually select Port Number.

— **Port search**
Used to autodetect port/reconnect station.

— **Exit**
Used when exiting software.

Setting

— **Language: Japanese/English/Chinese**
Select one of these languages.

— **Display temperature unit: ºC/ºF**
Select the unit for temperature.

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.

Help

— **Connection station version information**
Shows the station firmware version.

— **Version information**

2. Initial Screen

See "1. Menu"

See "3. Operation Buttons"

- ⚙ **Temperature Change**
- **Tip Temperature Correction (Offset)**
- **Parameter Setting**
- AUTO CAL **Automatic Calibration and Recorder**

Turn ON/OFF

Disabled during Auto save

① **Station name** is displayed.
The station can be named in the Parameter Setting button under the section [Station ID].

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]

SET TEMP **350** ºC

Station display

This can be done through the Temperature Change ⚙ button.

- Preset temperature displays [PRESET] and the preset number.

PRESET **3** 350 ºC

Preset number

Station display

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

④ **The temperature registered** for each preset number is displayed.
The preset temperatures can be changed in the Parameter Setting button under [Temp Set Menu].

Preset number
Registered temperature

Selected / Selectable / Unselectable

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

- Factory default setting temperatures:
No.1: 250ºC (600ºF)
No.2: 300ºC (700ºF)
No.3: 350ºC (750ºF)
No.4: 400ºC (800ºF)
No.5: 450ºC (850ºF)

Why are some buttons unselectable?
[Preset 5 ON/OFF] is set to [OFF] under the [Temp Set Menu] of the button.

The operating status of the station is displayed.

RUNNING
Operating normally

SLEEP
Sleep state

SHUT OFF
Time specified in the ShutOff Menu has elapsed

SENSOR ERROR
Tip heating element/sensor not detected

GRIP ERROR
Inapplicable handpiece connected or the handpiece is disconnected

NO CONNECTION
Station is turned OFF or the station is not connected to the PC

HEATERSHORT ERROR
Inapplicable tip inserted

ZEROCROSS ERROR
Power supply abnormality or the main unit is damaged

TIP DETECTION ERROR
Inapplicable tip detected

⑥ The selected **output mode** is displayed.
The mode can be changed in the Parameter Setting button under [Output mode setting].

⑦ **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.

⑧ Displayed when **the parameter setting change is locked**.
This can be locked/unlocked in the Parameter Setting button under [Lock Menu].

⑨ **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 inputed in [Tip sensor temperature monitor file split interval (minutes)].
- Saved file name
During manual saving: FX-805TEMP_M_220101_093358.csv
During automatic saving: FX-805TEMP_220101_093358.csv

Date stamp of recording: January 1, 2022, 9:33:58
- The graph "Time axis" and "Temperature axis" settings can be changed Click button to display the Setting screen.

Time axis setting
Length of time displayed 30 — 300
30 sec
Scale interval: 5 — 60
5 sec
Confirm Close

Temperature axis setting
Maximum Temperature Displayed: 200 — 500
500 ºC
Minimum Temperature Displayed: 0 — 400
0 ºC
Scale interval: 10 — 100
50 ºC
Confirm Close

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

| Time axis default		Temperature axis default	
Length of time displayed	30 seconds	Maximum Temperature Displayed	500ºC/950ºF
Time Scale Interval	5 seconds	Minimum Temperature Displayed	0ºC/0ºF
		Temperature Scale Interval	50ºC/50ºF

HAKKO FX-805 Control Software

ID **FX-805_001**
TIP TYPE **T37**
PRESET **3** 350 ºC
STATUS **RUNNING**
OUTPUT MODE **Power**
OFFSET **0** ºC

350 ºC

250 / 300 / 350 / 400 / 450

Auto save
Start record / Stop record

3. Operation Buttons

Temperature Change

● Change the set temperature

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

Temp change
350 °C
50 ▽ ▬▬●▬▬ △ 500
Confirm   Close
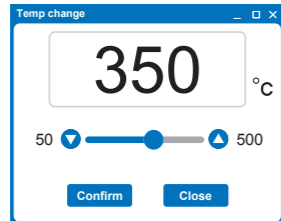
Tip Temperature Correction (Offset)
(See "4-3. Operation" in the Instruction Manual)

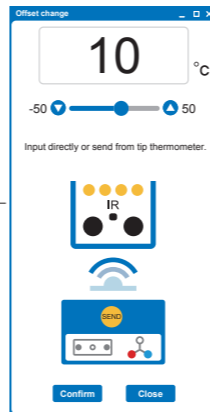● The tip temperature can be corrected with the following two methods.

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

Manual input	Using the HAKKO thermometer with the Temperature Sending Function
(1) Measure the tip temperature	(1) Measure the tip temperature
(2) Input the offset value	(2) Send the measured temperature
(3) Click the [Confirm] button	(3) Click the [Confirm] button
(4) Click the [Close] button	(4) Click the [Close] button

Offset change
10 °C
-50 ●▬▬▬ △ 50
Input directly or send from tip thermometer.
IR
Confirm   Close

Parameter Setting
(See "Quick 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 click the [Confirm] button the buzzer will sound, and [Sys] or [Set] will display on the station 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**.
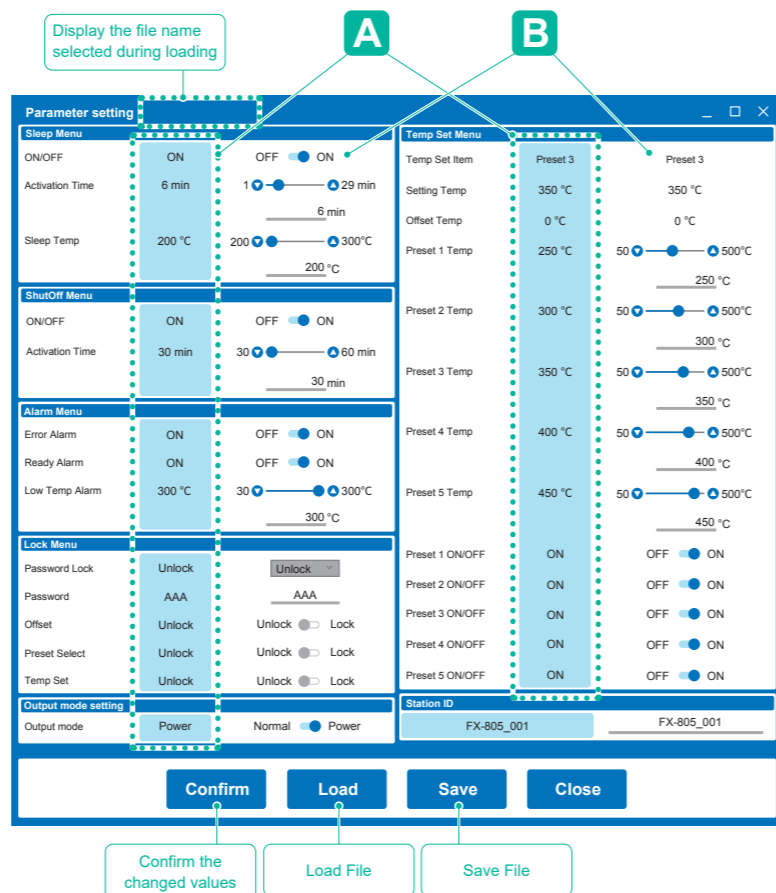Default file name: FX-805-Parameter.csv

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: FX-805-Parameter.csv*

Parameter No. correspondence table

Sleep Menu		Lock Menu	
ON/OFF	Parameter No.07		Parameter No.14
Activation Time	Parameter No.02	Temp Set Menu	
Sleep Temp	Parameter No.13	Preset Temp	Parameter No.23
ShutOff Menu		Preset ON/OFF	Parameter No.24
ON/OFF	Parameter No.08	Output Mode Setting	
Activation Time	Parameter No.18		Parameter No.12
Alarm Menu			
Error Alarm	Parameter No.05		
Ready Alarm	Parameter No.06		
Low Temp Alarm	Parameter No.03		

Display the file name selected during loading

A   **B**

Parameter setting
Sleep Menu
ON/OFF — OFF ● ON
Activation Time — 6 min — 1 ●—— 29 min / 6 min
Sleep Temp — 200 ℃ — 200 ●—— 300℃ / 200 ℃
ShutOff Menu
ON/OFF — ON — OFF ● ON
Activation Time — 30 min — 30 ●—— 60 min / 30 min
Alarm Menu
Error Alarm — ON — OFF ● ON
Ready Alarm — ON — OFF ● ON
Low Temp Alarm — 300 ℃ — 30 ●—— 300℃ / 300 ℃
Lock Menu
Password Lock — Unlock — Unlock ▾
Password — AAA — AAA
Offset — Unlock — Unlock ● Lock
Preset Select — Unlock — Unlock ● Lock
Temp Set — Unlock — Unlock ● Lock
Output mode setting
Output mode — Power — Normal ● Power

Temp Set Menu
Temp Set Item — Preset 3 — Preset 3
Setting Temp — 350 ℃ — 350 ℃
Offset Temp — 0 ℃ — 0 ℃
Preset 1 Temp — 250 ℃ — 50 ●—— 500℃ / 250 ℃
Preset 2 Temp — 300 ℃ — 50 ●—— 500℃ / 300 ℃
Preset 3 Temp — 350 ℃ — 50 ●—— 500℃ / 350 ℃
Preset 4 Temp — 400 ℃ — 50 ●—— 500℃ / 400 ℃
Preset 5 Temp — 450 ℃ — 50 ●—— 500℃ / 450 ℃
Preset 1 ON/OFF — ON — OFF ● ON
Preset 2 ON/OFF — ON — OFF ● ON
Preset 3 ON/OFF — ON — OFF ● ON
Preset 4 ON/OFF — ON — OFF ● ON
Preset 5 ON/OFF — ON — OFF ● ON
Station ID
FX-805_001 — FX-805_001

Confirm   Load   Save   Close

Confirm the changed values   Load File   Save File

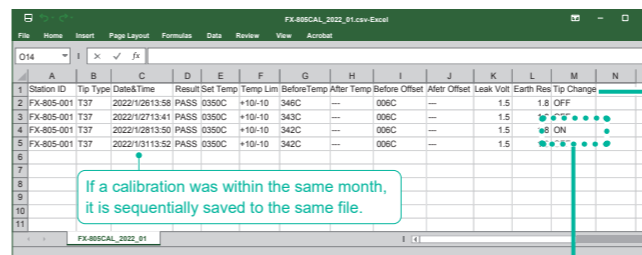### Automatic Calibration and Recorder

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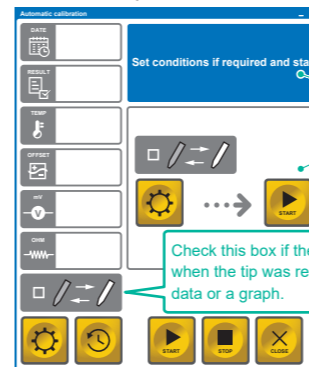It is an operation to automate tip temperature management, and to save the proper calibration results.

● Automatically saves the calibration results when the calibration is completed

● Compiles one month of saved calibration results in one CSV file
File name: FX-805CAL_2022_01.csv
   Product Name   Calibration year and month

Automatic calibration CSV (FX-805CAL_2022_01.csv-Excel)

Station ID	Tip Type	Date&Time	Result	Set Temp	Temp Lim	BeforeTemp	AfterTemp	Before Offset	AfterOffset	Leak Volt	Earth	Tip Change
FX-805-001	T37	2022/1/26 13:58	PASS	0350C	+10/-10	346C		006C		1.5		1.8 OFF
FX-805-001	T37	2022/1/27 13:41	PASS	0350C	+10/-10	343C		006C		1.5		
FX-805-001	T37	2022/1/28 13:50	PASS	0350C	+10/-10	342C		006C		1.5		
FX-805-001	T37	2022/1/31 13:52	PASS	0350C	+10/-10	342C		006C		1.5		

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

FX-805CAL_2022_01

● Calibration procedure

Automatic calibration
Set conditions if required and start.
C
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.

(1) Set the conditions during Automatic calibration with the ⚙ button.

Condition setting
Temperature calibration range (plus) — 1 ●—— 10 / 10
Temperature calibration range (minus) — -10 ——● -1 / -10
Number of retries — 3 ——●
Leak voltage measurement setting — OFF ● ON
Tip to ground resistance measurement — OFF ● ON
Confirm   Close

(2) Click the ▶ button and follow message **C** to calibrate.
Set the conditions during

● Calibration results
You may select one of the following search conditions.
・Date Search ....Specify the date for the period that you wish to check
・Number of histories .....Specify the recent histories that you wish to check

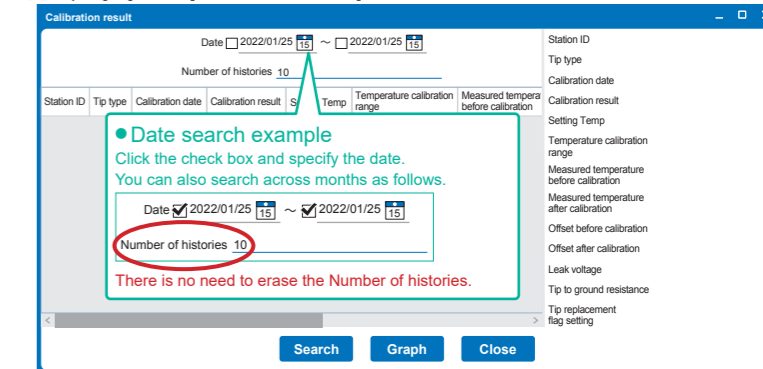● Procedure to display the calibration results

Automatic calibration
Set conditions if required and start.
⚙ ···▶ ▶
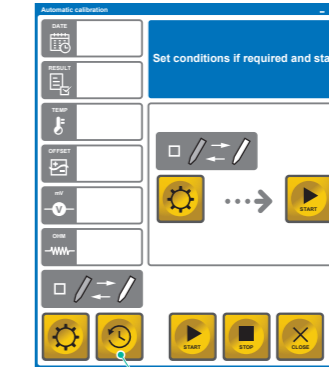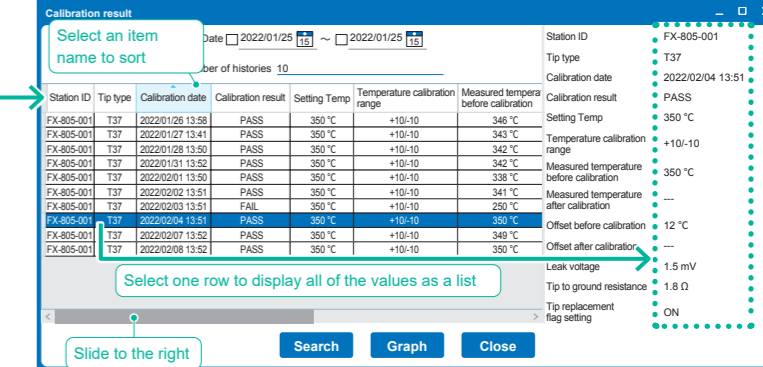
The following is an example for "History Search"

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

(1) Click the [Calibration results] button to display the screen to input the search conditions.
(2) Input [10] in the [Number of histories] bar.

Calibration result
Date ☐ 2022/01/25 ~ 2022/01/25
Number of histories 10

Station ID	Tip type	Calibration date	Calibration result	S	Temp	Temperature calibration range	Measured temperature before calibration

Station ID
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
Leak voltage
Tip to ground resistance
Tip replacement flag setting

● Date search example
Click the check box and specify the date.
You can also search across months as follows.
Date ☑ 2022/01/25 ~ ☑ 2022/01/25
Number of histories 10
There is no need to erase the Number of histories.

Search   Graph   Close

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

Calibration result
Select an item name to sort
Date ☐ 2022/01/25 ~ 2022/01/25
Number of histories 10

Station ID	Tip type	Calibration date	Calibration result	Setting Temp	Temperature calibration range	Measured temperature before calibration
FX-805-001	T37	2022/01/26 13:58	PASS	350 ℃	+10/-10	346 ℃
FX-805-001	T37	2022/01/27 13:41	PASS	350 ℃	+10/-10	343 ℃
FX-805-001	T37	2022/01/28 13:50	PASS	350 ℃	+10/-10	342 ℃
FX-805-001	T37	2022/01/31 13:52	PASS	350 ℃	+10/-10	342 ℃
FX-805-001	T37	2022/02/01 13:50	PASS	350 ℃	+10/-10	338 ℃
FX-805-001	T37	2022/02/02 13:51	PASS	350 ℃	+10/-10	341 ℃
FX-805-001	T37	2022/02/03 13:51	FAIL	350 ℃	+10/-10	349 ℃
FX-805-001	T37	2022/02/04 13:51	PASS	350 ℃	+10/-10	345 ℃
FX-805-001	T37	2022/02/07 13:52	PASS	350 ℃	+10/-10	346 ℃
FX-805-001	T37	2022/02/08 13:52	PASS	350 ℃	+10/-10	350 ℃

Select one row to display all of the values as a list

Station ID — FX-805-001
Tip type — T37
Calibration date — 2022/02/04 13:51
Calibration result — PASS
Setting Temp — 350 ℃
Temperature calibration range — +10/-10
Measured temperature before calibration — 350 ℃
Measured temperature after calibration —
Offset before calibration — 12 ℃
Offset after calibration —
Leak voltage — 1.5 mV
Tip to ground resistance — 1.8 Ω
Tip replacement flag setting — ON

Slide to the right

Search   Graph   Close

(5) Click [Graph].
(6) The 10 search results are graphed.

Calibration result graph
— Measured temperature
— Offset temperature

You can check when the tip was replaced with the blue vertical line.

Number of histories
Close