

HAKKO Installing the software

1 Software

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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

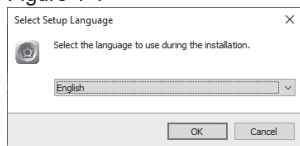
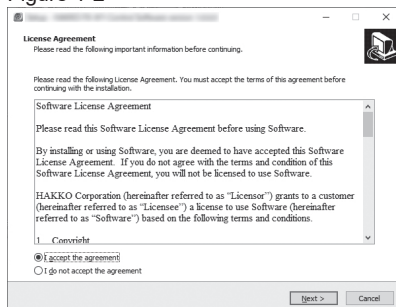


Figure 1-2



- (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)

Figure 1-3



Figure 1-4

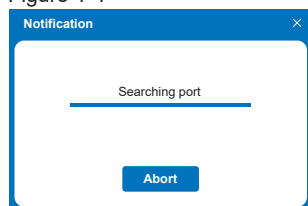
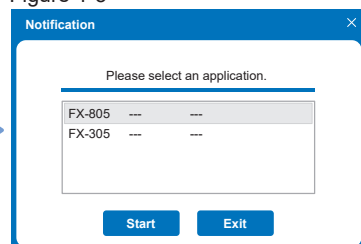


Figure 1-5

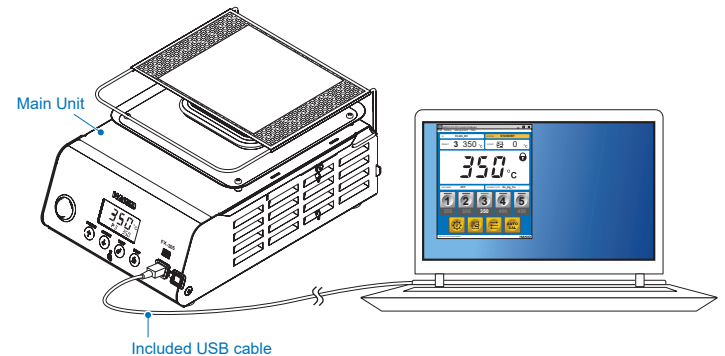
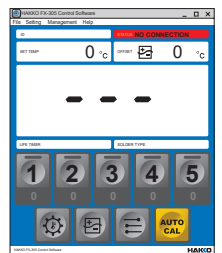


5 Connecting to a PC

- (1) Connect the main unit to a PC with the included USB cable.
- (2) Turn the main unit power switch ON.
- (3) Launch the software.

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

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



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.

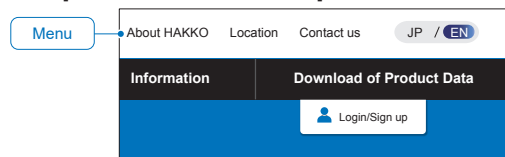


https://www.hakko.com/doc_support-e

- (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.



- (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.



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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.
- Select application**
Select the unit.

Management

- File storage location:**
Parameter setting file/
Automatic calibration result file
Select where files are saved.
NOTE By default, files are saved in the same location as software folder.





Help

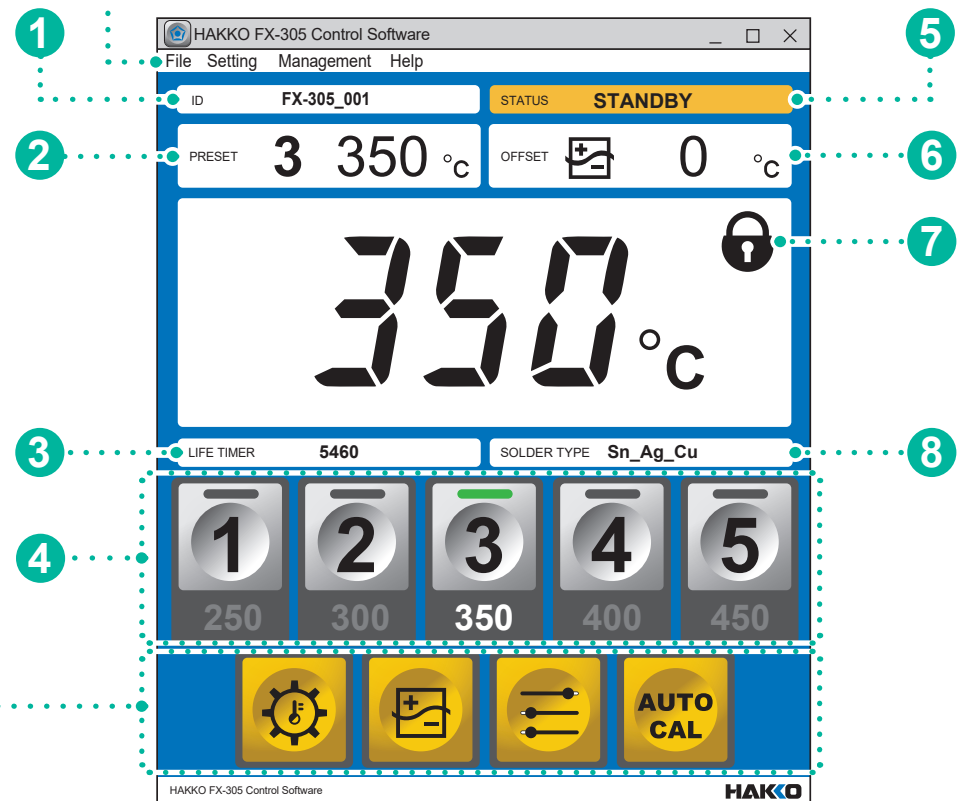
- Connection unit version information**
Shows the connection unit firmware version.
- Version information**


2. Screen Description

See "1. Menu"


See "3. Operation Buttons"

-  **Temperature Change**
-  **Internal Pot Temperature Correction (offset)**
-  **Parameter Setting**
-  **Automatic Calibration and Recorder**





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

- 2** The Setting Temp status is displayed.
• Manual inputting temperature displays [SET TEMP]
• Preset temperature displays [PRESET] and the preset number.
- Connection unit display

This can be done through the Temperature Change  button.
- Connection unit display

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

- 3** The accumulated pot usage time (unit: hour) is displayed.
Use as an approximate guide when to replace the pot.
NOTE When [OFF] is displayed, [Life Timer Menu] in  button is set to [OFF].


- 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].
- Presets

Presets


Presets





Selected Selectable Unselectable

The preset temperature selection status is shown by the button color.
- Factory default setting temperatures:
No.1: 250°C (600°F)
No.2: 300°C (700°F)
No.3: 350°C (750°F)
No.4: 400°C (800°F)
No.5: 450°C (850°F)

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 connection unit is displayed.

- STANDBY**
Internal pot temperature rising
- RUNNING**
Operating normally
- STOP**
Heater is OFF and internal pot temperature is dropping (Under Stop mode)
- LIFE TIME OVER**
Reached the time (accumulated pot usage time) set under the [Life Timer Menu] in the  button
- 5** **SENSOR ERROR**
Heating element/sensor not detected
- LEAK ERROR**
Status that foreign matter has entered in the heat insulation plate located under the pot, or a hole in the pot caused solder leakage into the interior of the main unit
- NO CONNECTION**
Connection unit is turned OFF or the main unit is not connected to the PC
- ZEROCROSS ERROR**
Power supply abnormality or the main unit is damaged

- 6** The correction value (offset value) is displayed.
The offset can be changed using the Internal Pot Temperature Correction  button or the Automatic Calibration and Recorder  button.
- Displayed when **the parameter setting change is locked**.
- 7** This can be locked/unlocked in the Parameter Setting  button under [Lock Menu].
- Solder type** is displayed.
- 8** The solder type can be changed in the Parameter Setting  button under [Pot Menu].

3. Operation Buttons

Temperature Change

• Change the set temperature
If the temperature is changed here, the preset temperature selection is automatically canceled.

NOTE

Internal Pot Temperature Correction (offset)

(See "4-3. Operation" in the Instruction Manual)

• The internal pot temperature can be corrected with the following two methods.

NOTE

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

Manual input

Using the HAKKO thermometer with the Temperature Sending Function

(1) Measure the Internal pot temperature

(2) Input the offset value

(3) Click the [Confirm] button

(4) Click the [Close] button

(1) Measure the Internal pot temperature

(2) Send the measured temperature

(3) Click the [Confirm] button

(4) Click the [Close] button

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 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: FX-305-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-305-Parameter.csv*

Parameter No. correspondence table			
Pot Menu		Lock Menu	
Solder Type	Parameter No. 26		Parameter No. 14
Pot Size	Parameter No. 27		
Life Timer Menu		Temp Set Menu	
ON/OFF	Parameter No. 28	Preset Temp	Parameter No. 23
Time	Parameter No. 29	Preset ON/OFF	Parameter No. 24
Alarm Menu			
Ready Alarm	Parameter No. 35		

Display the file name selected during loading

A

B

Confirm the changed values

Load File

Save File

If the ID of the connection unit is not registered, it will be displayed as below.

ID

No Data

Automatic Calibration and Recorder

What is Automatic Calibration?

It is an operation to automate internal pot 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-305CAL_2022_01.csv**

Product Name

Calibration year and month

FX-305CAL_2022_01.csv-Excel															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ID	Date&Time	Result	Set Temp	Temp Lim	BeforeTemp	After Temp	Before Offset	After Offset	Leak Volt	Earth Res	Pot Change	Solder Type	Pot Size		
1	FX-305-001	2022/1/26 13:58	PASS	0350C	+10/-10	346C	---	006C	---	1.5	1.8	OFF	---	Sn_Ag_Cu	75
2	FX-305-001	2022/1/27 13:41	PASS	0350C	+10/-10	343C	---	006C	---	1.5	1.8	ON	---	Sn_Ag_Cu	75
3	FX-305-001	2022/1/28 13:50	PASS	0350C	+10/-10	342C	---	006C	---	1.5	1.8	ON	---	Sn_Ag_Cu	75
4	FX-305-001	2022/1/31 13:52	PASS	0350C	+10/-10	342C	---	006C	---	1.5	1.8	ON	---	Sn_Ag_Cu	75
5	FX-305-001	2022/2/02 13:51	PASS	0350C	+10/-10	341C	---	006C	---	1.5	1.8	ON	---	Sn_Ag_Cu	75

Calibration procedure

Set conditions if required and start.

C

Check this box if the pot was replaced. This will allow you to know when the pot 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)

10

Temperature calibration range (minus)

-10

Number of retries

3

Leak voltage measurement setting

OFF

Pot to ground resistance measurement

OFF

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

Set conditions if required and start.

C

The following is an example for "Number of histories".
The calibration results can be displayed even if the connection unit 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

• 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

ID	Calibration date	Calibration result	Setting Temp	Temperature calibration range	Measured temperature before calibration	Measured temperature after calibration	Meas after
FX-305-001	2022/01/26 13:58	PASS	350 °C	+10/-10	346 °C	---	---
FX-305-001	2022/01/27 13:41	PASS	350 °C	+10/-10	343 °C	---	---
FX-305-001	2022/01/28 13:50	PASS	350 °C	+10/-10	342 °C	---	---
FX-305-001	2022/01/31 13:52	PASS	350 °C	+10/-10	342 °C	---	---
FX-305-001	2022/02/01 13:50	PASS	350 °C	+10/-10	338 °C	---	---
FX-305-001	2022/02/02 13:51	PASS	350 °C	+10/-10	341 °C	---	---
FX-305-001	2022/02/03 13:51	FAIL	350 °C	+10/-10	290 °C	---	---
FX-305-001	2022/02/04 13:51	PASS	350 °C	+10/-10	350 °C	---	---
FX-305-001	2022/02/07 13:52	PASS	350 °C	+10/-10	349 °C	---	---
FX-305-001	2022/02/08 13:52	PASS	350 °C	+10/-10	350 °C	---	---

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

Slide to the right

Search

Graph

Close

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

Calibration result graph

Measured temperature

Offset temperature

500

450

400

350

300

250

200

150

100

50

0

1

2

3

4

5

6

7

8

9

10

Number of histories

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

Close