FIAKO Software FR-850 Operation manual



2. Screen Description



1. Menu

Port selection

Used to manually select Port Number

Used when exiting software.

-Language: Japanese/English/

Select one of these languages.

- Display temperature unit: °C/°F Select the unit for temperature.

Display graph: ON/OFF

Select whether to display the graph on the main screen. NOTE Default is ON.

Select application Select the unit.

-Connection unit version information Shows the connection unit

firmware version

Version information

Management



are performed on this app and unit.

NOTE Default is ON.

Used to turn hot air **ON/OFF**.

• When you click [START], hot air will begin flowing and the screen will display [STOP]. • When you click [STOP], the power to the heater will turn off, cooling will begin, and the

The 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

[Sensor temperature monitor file split interval (minutes)]

During manual saving: FR-850TEMP M 250101 093358.csv During automatic saving:FR-850TEMP_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.

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

	×		Temperature Axis Setting	×
ed: 30 👽 🔵 ——	- 300		Maximum Temperature Displayed: 200 🛇 — — 🌑 🔕	600
			<u>600</u> °C	
3	30 sec		Minimum Temperature Displayed: 000	500
val: 5 👽 🔴 🚽	- 060		<u>0</u> °C	
	5 sec		Scale interval: 10 O	100
	-		<u>50</u> ℃	
Close			Confirm	
e axis defa	ault		Temperature axis de	fau
splayed	30 secon	ds	Maximum Temperature Displayed	60
/al	5 second	S	Minimum Temperature Displayed	0°0
			Temperature Scale Interval	50

HAKO Software FR-850 Operation manual

3. Operation Buttons

Change the set temperature



Temperature Change

Hot air Temperature Correction (offset)

-50 🔽 -

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

• The hot air temperature can be corrected with the

Manual input

Using the HAKKO thermometer with

the Temperature Sending Function

(1) Measure the hot air temperature

(2) Send the measured temperature

(3) Click the [Confirm] button

(4) Click the [Close] button

(1) Measure the hot air temperature

(2) Input the offset value

(3) Click the [Confirm] button

(4) Click the [Close] button

This will not function when the connection unit is

following two methods.

in offset mode.

NOTE



Airflow can be changed
 Airflow setting range: 5 to 100%

°C

______50

Close

Input directly or send from thermometer

IR

• • •



Display the selected du	file name ring loading										
Parameter Se	tting										
Alarm Menu			Chain Preset Setti	ng Meru		Preset Setting Me					
Error Alarm	ON	OFF 🛑 ON	Chain Preset	OFF	OFF 🕕 ON	Preset 1 Temp	250 °C	50 👽 —			
Ready Alarm	ON	OFF 💶 ON	Number of Chained Preset	5	5 ~						
Operation Mode Change Alarm	ON	OFF 🗨 ON	Chained Preset 1	Preset1	Preset1 v	Preset 1 Timer	30 sec	10-			
ShutOff Menu			Chained Preset 2	Preset2	Preset2 v						
ON/OFF	ON	OFF 🗨 ON	Chained Preset 3	Preset3	Preset3 v		OFF				
Activation Time	30 min	30 min 🔿 🗩 60 min	Chained Preset 4	Preset4	Preset4 v	Preset 1 Airflow	50 %	5 \ -			
Ouick Start Enabl			Chained Preset 5	Preset5	Preset5 v						
ON/OFF	OFF	OFF 🔵 ON	Set Menu			Preset 2 Temp	300 °C	50 👽 —			
			Setting Temp	350 °C	50 👽 — 💽 600 °C			· ·			
Lock Menu					350 °C	Preset 2 Timer	30 sec	10-			
Password Lock	Unlock	Unlock v									
Password	AAA	AAA	Offset Temp	0°C	-50 V		OFF				
Offset	Unlock	Unlock 🛑 Lock			0 °C	Preset 2 Airflow	50 %	5 \ -			
Preset Select	Unlock	Unlock 🌒 Lock	Timer	30 sec	1 👽 🗕 🔷 999 sec						
Temp Set	Unlock	Unlock 🌑 Lock			30 sec	Preset 3 Temp	350 °C	50 👽 —			
Timer Set	Unlock	Unlock 🌑 Lock			OFF v						
Airflow Set	Unlock	Unlock 🌑 Lock	Airflow	50 %	5 🗙 — 🔷 100 %	Preset 3 Timer	30 sec	10-			
					<u> </u>		OFF				
FR-850_(001	FR-850_001				Preset 3 Airflow	50 %	50-			
Confirm	Load	Save Close									
		Close									
Canfirm the			1								
changed values		Load File Sa	ve File								

Temperature range: 50 to 600°C (120 to 1150°F)

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



Parameter Setting

(See "6. 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: FR-850-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: FR-850-Parameter.csv*

Parameter No. correspondence table								
Alarm Menu		Quick Start Setting						
Error Alarm	Parameter No.05	ON/OFF	Parameter No.38					
Ready Alarm	Parameter No.	Lock Menu						
Operating Mode Change Alarm	Parameter No.39		Parameter No. 14					
ShutOff Menu		Preset Settings Menu						
ON/OFF	Parameter No.08	Preset Settings	Parameter No.23					
Activation Time	Parameter No. 18	Chain-Preset ON/OFF	Parameter No.22					

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





Changing the timer setting

Timer can be changed
Setting time range: 1 to 999 seconds
Timer setting mode can be changed

Timer setting mode [OFF] Use without setting the timer. [Opened] Set to opened timer. [Closed] Set to closed timer.





HAKO Software FR-850 Operation manual

3. Operation Buttons (cont'd)



Automatic Calibration and Recorder

What is Automatic Calibration?

It is an operation to automate hot air 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: FR-850CAL_2025_03.csv

Product Name Calibration year and month

- FR-850CAL_2025_03 .csv-Excel 配 - ロ										×				
7	イル ホーム	挿入 ^	ージレイアウト 数3	t 7-	-タ 校開	表示	Acrobat							
014 · · · · · · · · · · · · · · · · · · ·												Ý		
4	A	В	C	D	E	F	G	н	1	J	к	L	М	
1	Station ID	Handpiece	Date&Time	Result	Set Temp	Temp Lim	BeforeTemp	After Temp	Before Offset	Afetr Offset	Earth Pot	Earth Res	Nozzle Ch	a 🗕
2	FR-850_001	FR-8501	2025/3/1416:06	PASS	0350C	+10~-10	0351C		005C		0.4	0.5	_	<u></u>
3	FR-850_001	FR-8501	2025/3/15 9:06	PASS	0350C	+10~-10	0365C	0351C	005C	-10C	0.5	0.	ON	
4			•										_	21
5		C												
6		If a calibration was within the same month.												
7		it is convertibly exact to the same file												
8			t is seque	inua	ily sav	led to	the sar	ne me.						
9														
10														
11														
	- F	FR-850CAL	2025_03					1.0	t [3
-														

Calibration procedure





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

Calibration results

- You may select one of the following search conditions.
- ID SearchSearch by specific ID
- ...Search by specific period by date Date Search
- Handpiece Search......Search by specific Handpiece
- Number of historiesSearch number of recent histories



(1) Click the [Calibration results] button to display the screen to input the search

conditions (2) Input [10] in the [Number of histories] bar.



(3) Click the [Search] button.

(4) The search results (latest 10 entries) are displayed.



(5) Click [Graph] button.

(6) The 10 search results are graphed.





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2025.04 96.0051-001