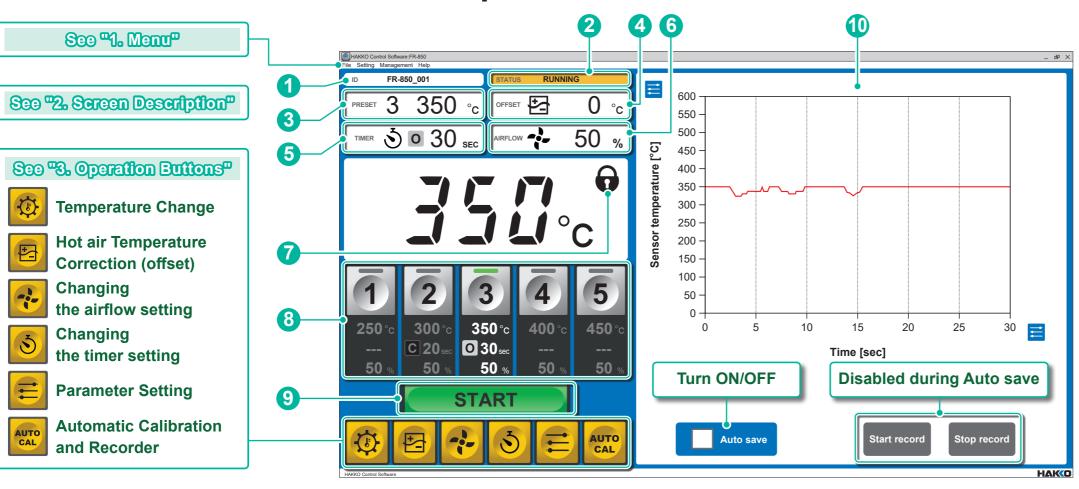
HAK(Software FR-850 Operation manual



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.

Display graph: ON/OFF
 Select whether to display the graph on the main screen.

NOTE Default is ON.

Select application

Select the unit.

Help

 Connection unit version information

Shows the connection unit firmware version.

-Version information

Management

File storage location:
Parameter setting file/
Automatic calibration result file/
Sensor temperature monitor file

Select where files are saved.

NOTE By default, files are saved in the same location as software

Sensor temperature monitor auto save: ON/OFF

When set to **[ON]**, the sensor temperature will be recorded constantly and saved as CSV file.

NOTE Default is OFF.

Sensor temperature monitor file split interval (minutes): 1 to 120 Segments CSV files into multiple

files based on minutes.

NOTE Default is 5 min.

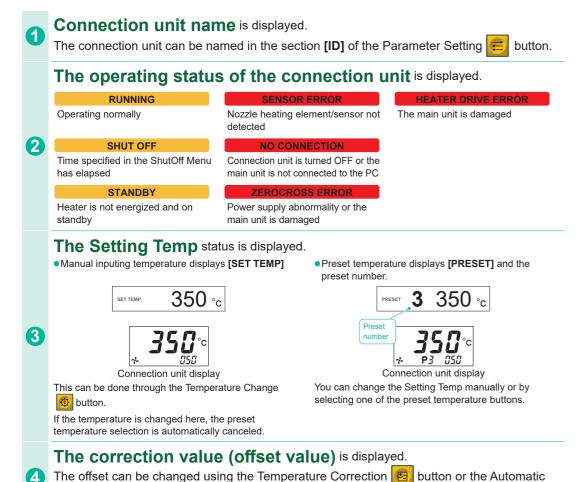
Log file: ON/OFF

Operation logs can be recorded when operations or setting changes are performed on this app and unit.

NOTE Default is ON.

2. Screen Description

Calibration and Recorder Calibration and Recorder



The timer **mode and set time** are displayed. You can change the settings using the **5** button.

Opened timer:

Count starts after the temperasure reaches the set temperature

Closed timer:

Count starts when the power to the heater is turned on.

Setting time range: 1 to 999 seconds

Closed timer time
Opened timer time

Opened timer time

Stable

→ Time

The airflow setting is displayed.

You can change the setting using the 🚱 button. Setting range : 5 to 100%

Displayed when the parameter setting change is locked.

This can be locked/unlocked in the **[Lock Menu]** of the Parameter Setting **=** button.

The settings programmed for each preset number are displayed. You can change the programmed temperature, timer settings, and airflow in the [Preset Setting Menu] of the button.

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

Programmed temperature O 300 ° c O 300 ° c

Factory default setting Set temperature

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)

Timer Settings: OFFSet airflow 50%

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 screen will display [START].

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)].

Saved file name

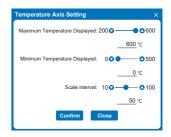
During manual saving: FR-850TEMP_M_250101_093358.csv During automatic saving:FR-850TEMP_250101_093358.csv

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.





Time axis default		Temperature axis default	
Length of time displayed	30 seconds	Maximum Temperature Displayed	600°C/1150
Time Scale Interval	5 seconds	Minimum Temperature Displayed	0°C/0°F
		Temperature Scale Interval	50°C/50°F

HAKO Software FR-850 Operation manual

3. Operation Buttons



Temperature Change

 Change the set temperature Temperature range: 50 to 600°C (120 to 1150°F)



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

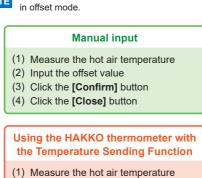


Hot air Temperature Correction (offset)

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

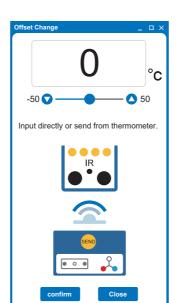
 The hot air temperature can be corrected with the following two methods

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





- (2) Send the measured temperature
- (3) Click the [Confirm] button
- (4) Click the [Close] button

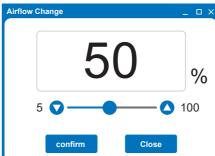




Changing the airflow setting

Airflow can be changed

Airflow setting range: 5 to 100%





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.





Activation Time

Parameter Setting

(See "6. Parameter Settings" in the Instruction Manual)

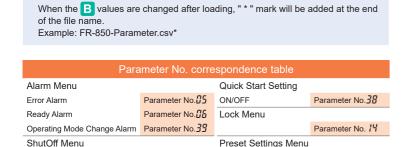
The current settings are highlighted in blue A and can be changed in the column to the right B. By clicking the [Confirm] button the buzzer will sound, and [Sys] or [Set] will display on the connection unit to show the settings have been

• 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

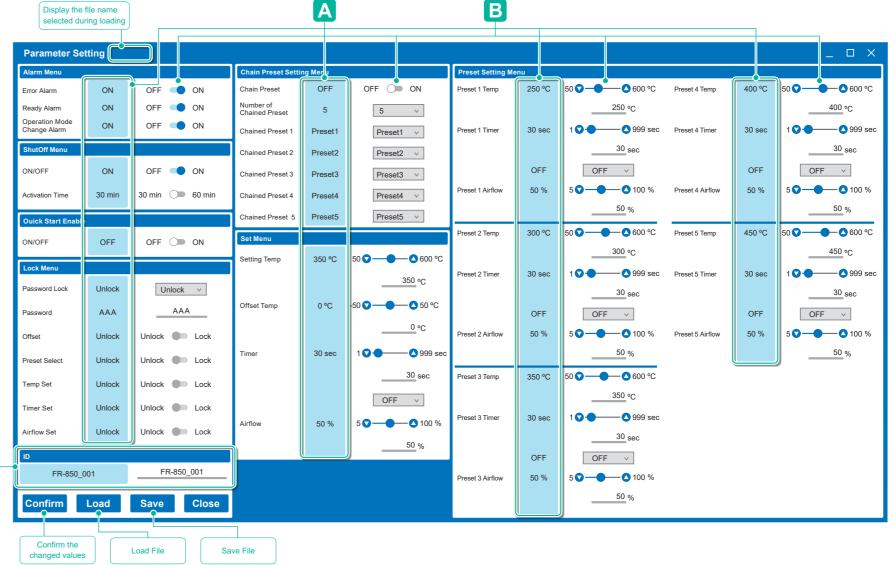
If the selected file name has an " * "...



Parameter No. 28 Preset Settings

Parameter No. 🖁 Chain-Preset ON/OFF





HAK(Software FR-850 Operation manual

3. Operation Buttons (cont'd)



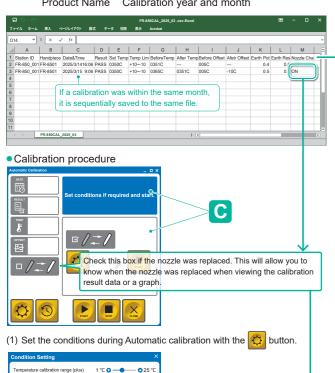
Automatic Calibration and Recorder

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
- Compiles one month of saved calibration results in one CSV file File name: FR-850CAL_2025_03.csv

Product Name Calibration year and month



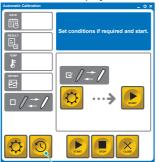


- (2) Click the button and follow message C to calibrate. Set the conditions during.
- Calibration results

You may select one of the following search conditions.

- ID SearchSearch by specific ID
- ..Search by specific period by date · Date Search
- Handpiece Search.....Search by specific Handpiece
- · Number of histories Search number of recent histories

Procedure to display the calibration results

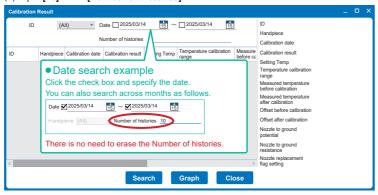


The following is an example for "Number of

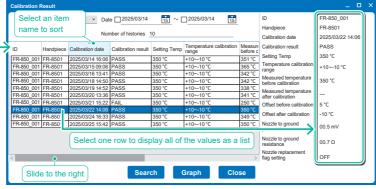
NOTE The calibration results can be displayed even if the connection unit is turned OFF.

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

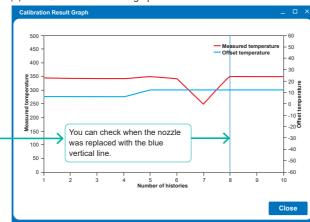
(2) Input [10] in the [Number of histories] bar.



- (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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