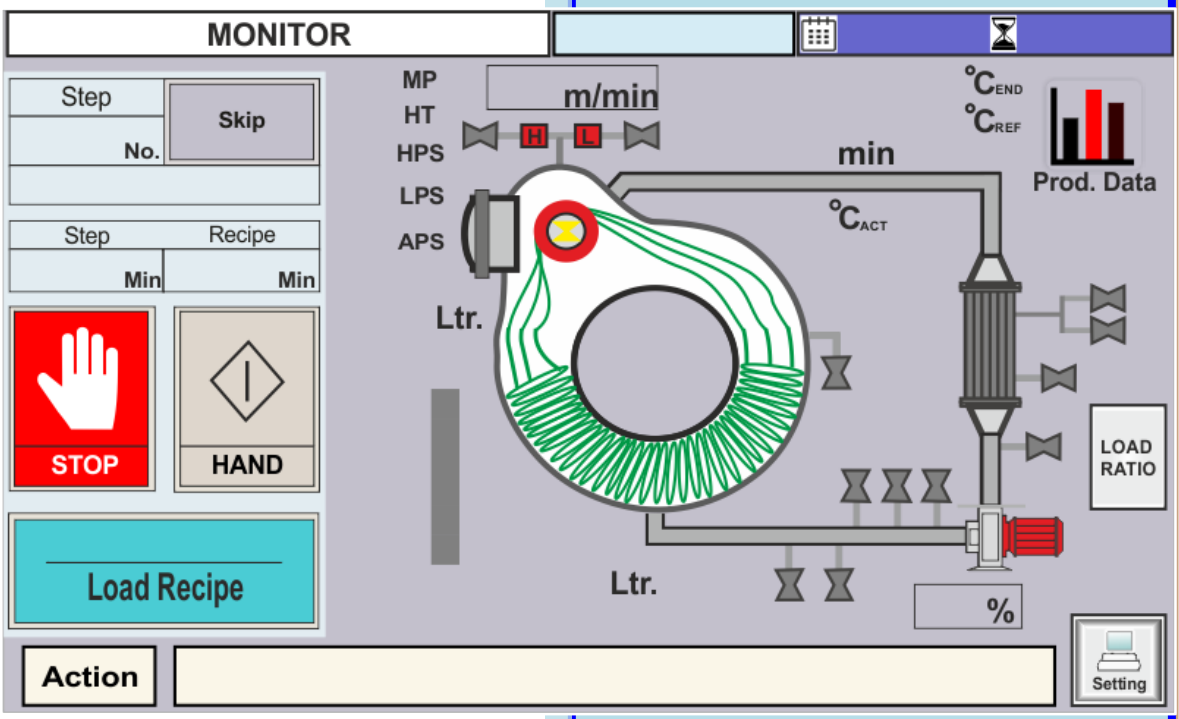
2023

JDYEkon USER GUIDE



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4/7/2023

JDYEkon USER GUIDE

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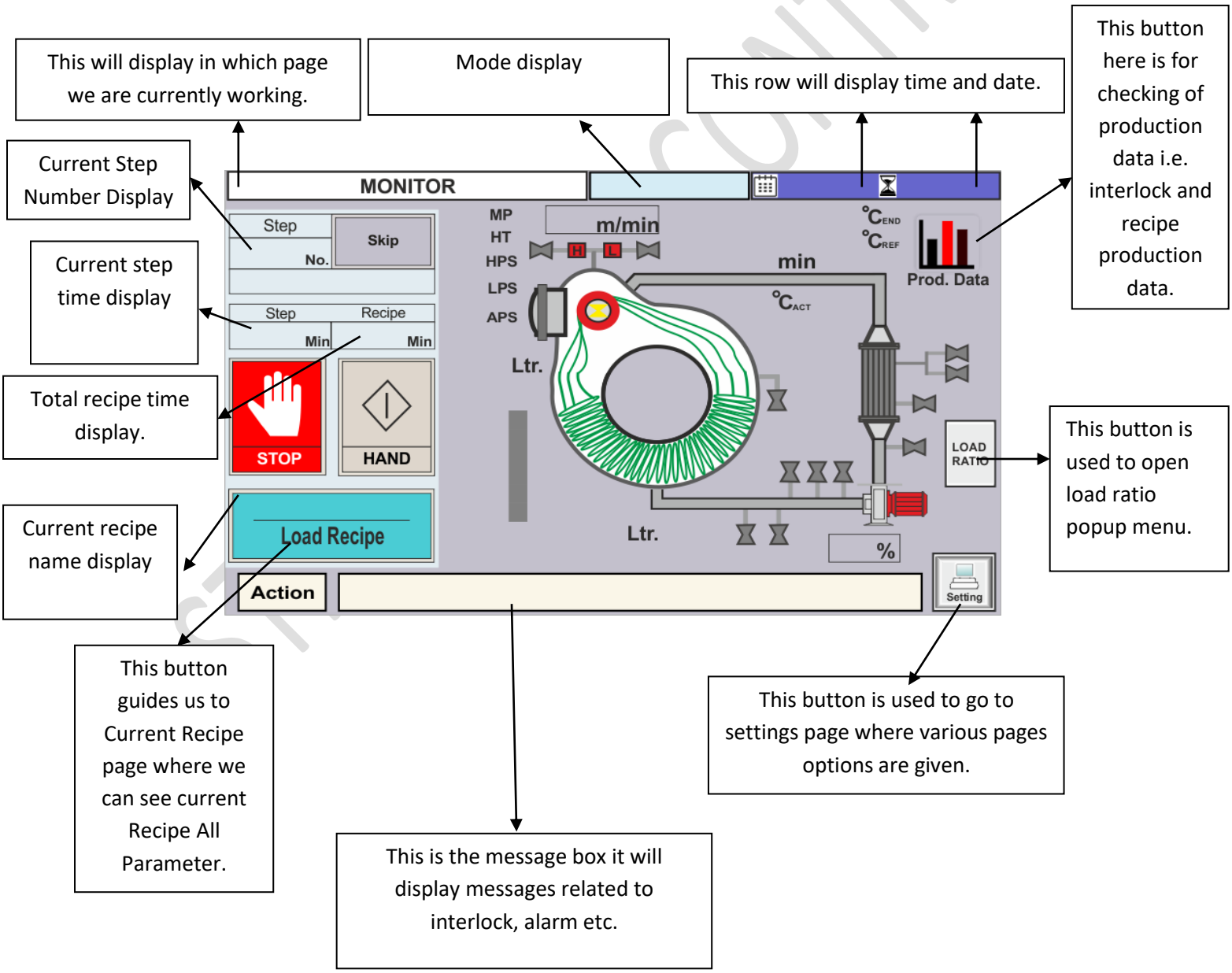
STREAMLINE CONTROL

OPERATING PANEL DESCRIPTION

1. Screen name: MONITOR

This is **MONITOR** screen; it will come up after the start-up screen. In this screen you can see the movement of water and according to that the level bar will be raised inside the page and also you will be able to see step number, step time, current recipe total time and various other parameters.



- **THREE TYPES OF MODES:-**
    - **Hand Or Stop Mode**
    - **Auto Mode**
    - **Hold Mode**

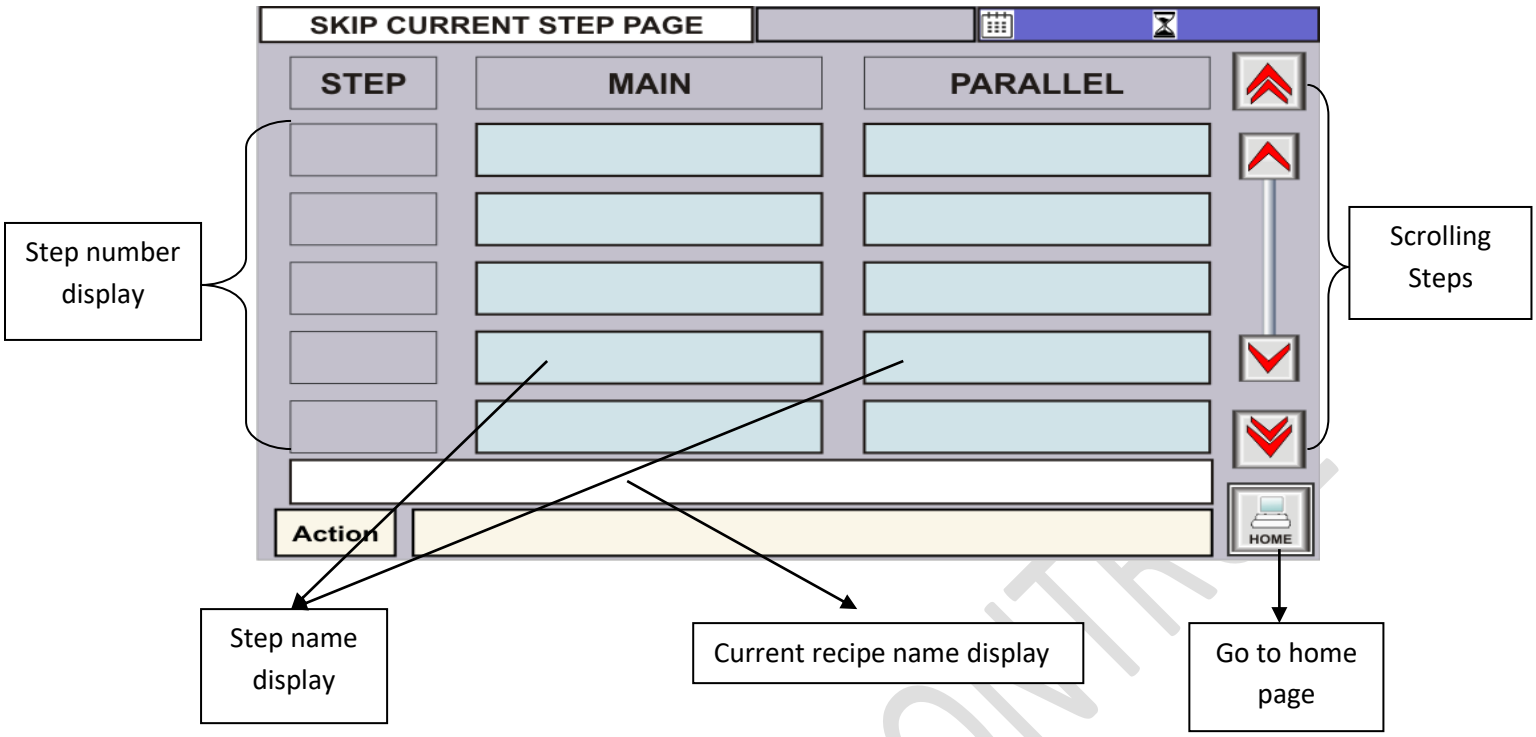
- **STOP OR HAND MODE:-**
    - Touch and hold 2 second to enter hand or stop mode.
    - Display Hand mode image.
    - Stop current cycle.

- **AUTO MODE:-**
    - Touch and hold 2 second to enter auto mode.
    - Display auto mode image.
    - Cycle will be running mode.

- **HOLD MODE:-**
    - Touch and hold 2 second to enter Hold mode.
    - Display hold mode image.
    - This condition executed Current step on hold.

- **SKIP STEP:-**
    - Touch and hold 2 second to enter skip page.
    - Page is open when in mode hand.

STREAMLINE CONTROL



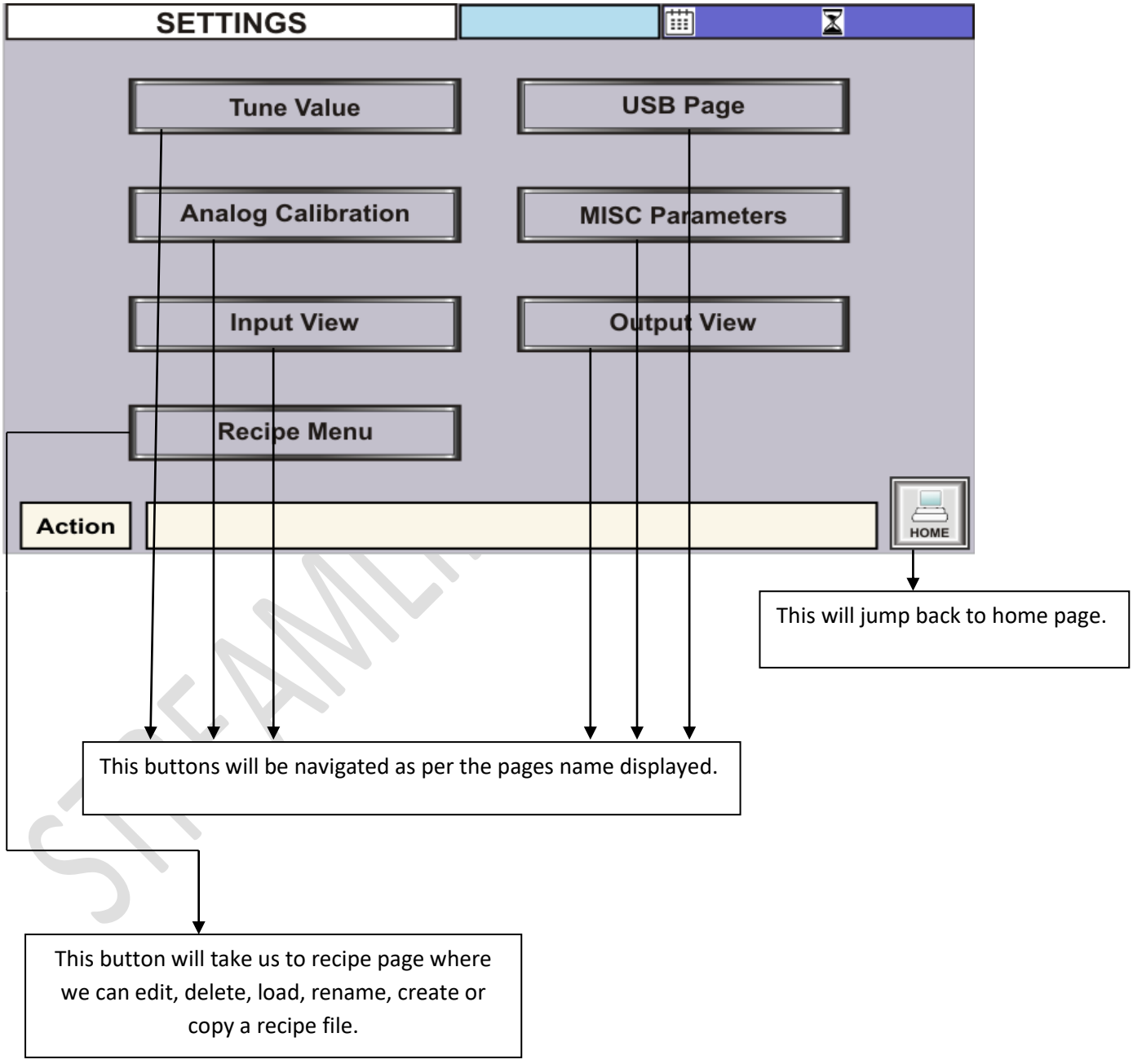
Page description:-

You can see the all steps of current recipe. See the name of current recipe. After Touch and hold 2 seconds, that step will be selected. Cycle will start from the selected step.

STREAMLINE CONTROLS

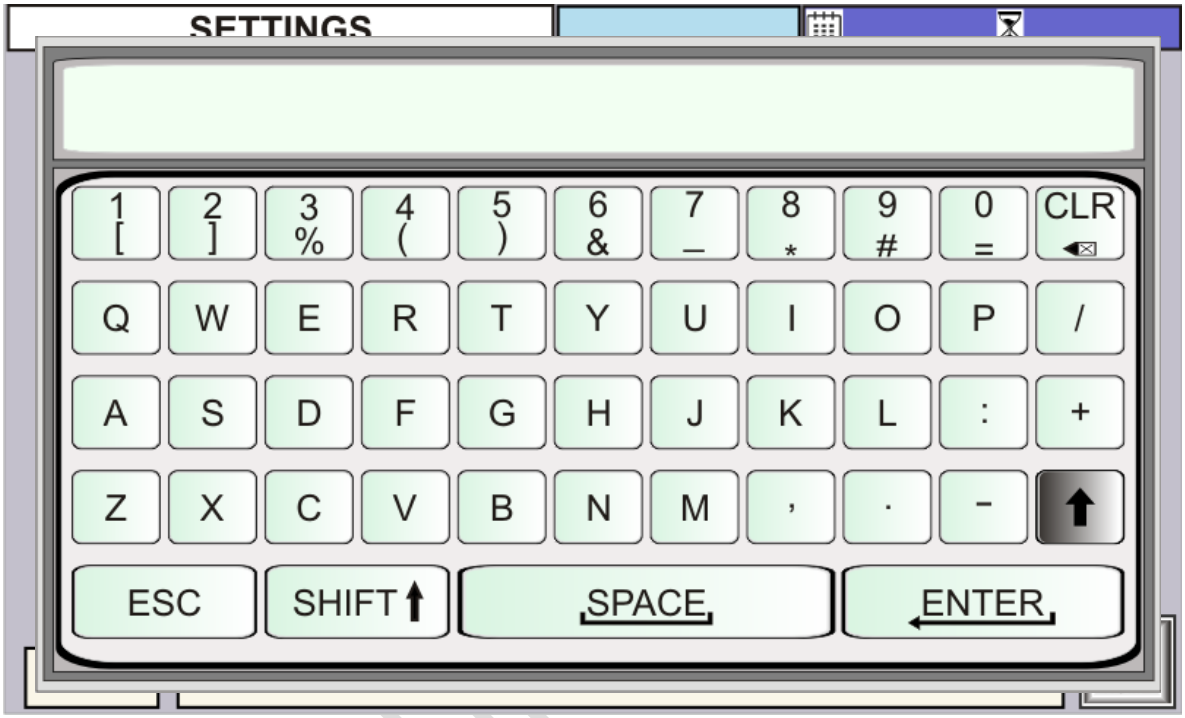
2. Screen name: SETTINGS

This is **Settings** screen; it will appear on screen after we touch “Program” button on the monitor page. This page is the menu page where there are buttons to navigate through different pages respective of their names.



3. Screen name: CREATE NEW RECIPE

This is the **CREATE RECIPE** screen; it will display a keyboard whenever create recipe key is pressed and then after we have to enter the recipe name and then new recipe file is created.

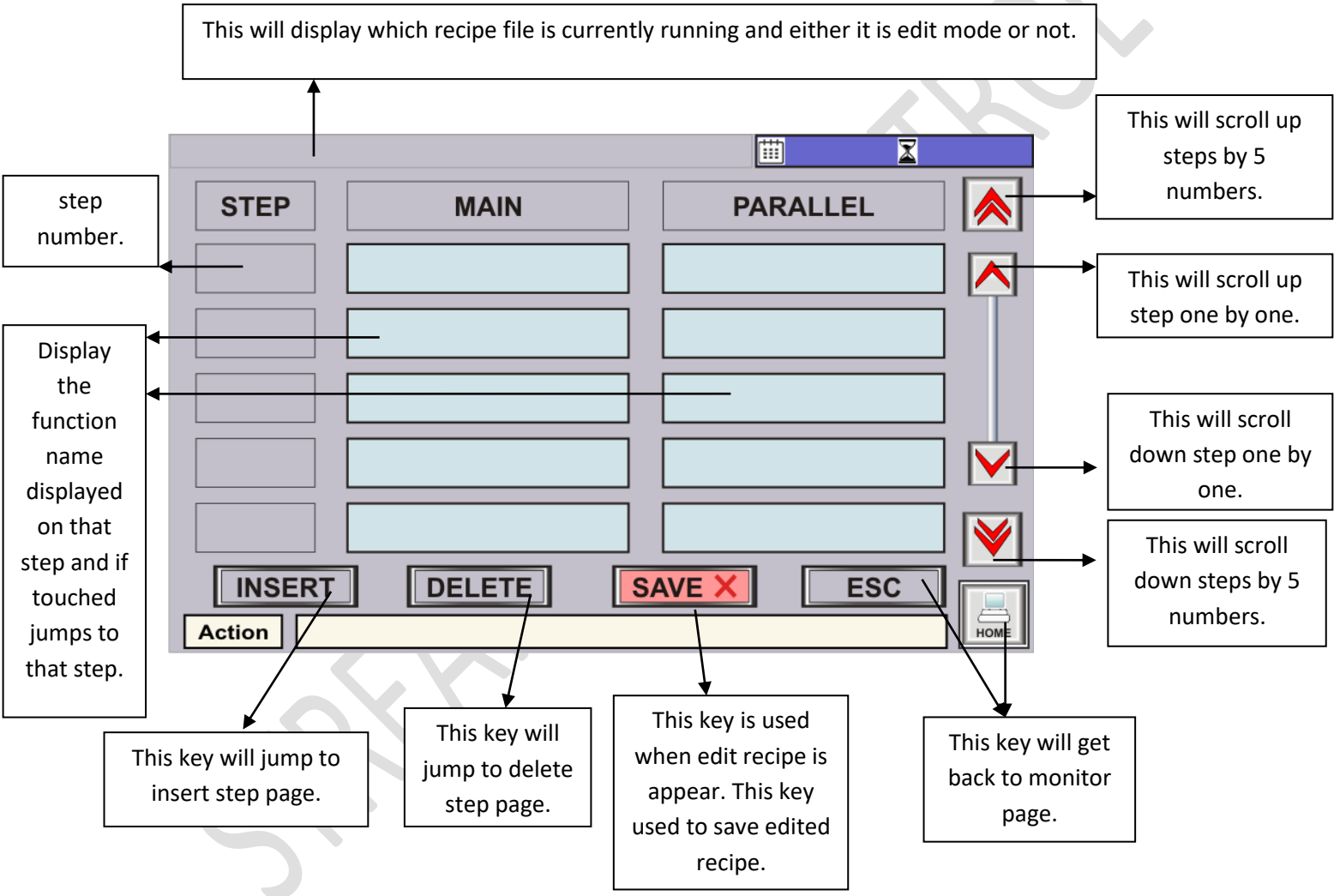


- Popup opened after create recipe button is pressed. For creating new recipe we have to enter file name and press **ENTER** to save it.
- **A new recipe file will be created the fresh recipe data.**

NOTE: Create new recipe file from the recipe page menu.

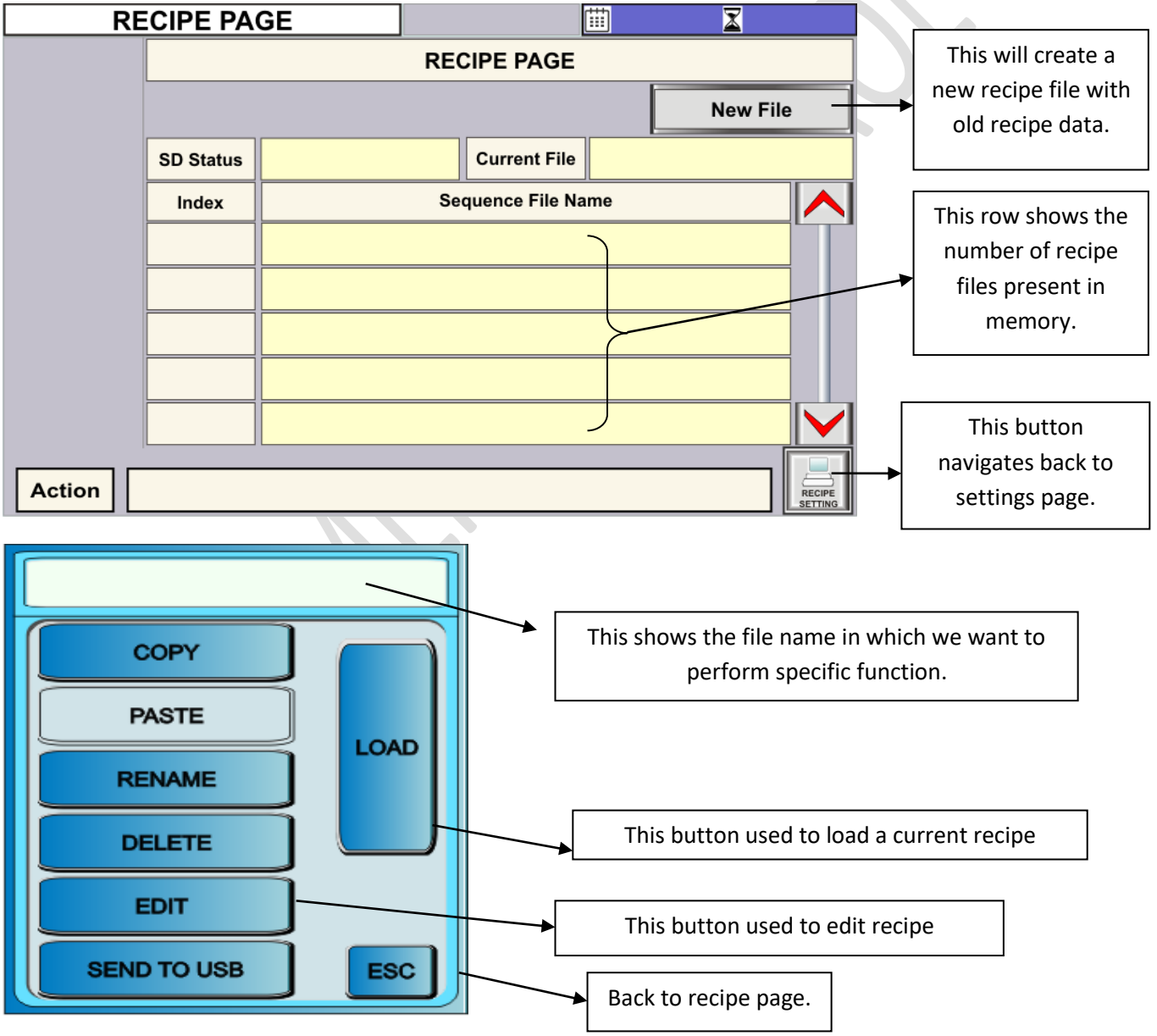
4. Screen Name: CURRENT CYCLE

This is the **CURRENT CYCLE** screen; it will display which cycle is currently running & also display function name of parameters respectively in “main” & “parallel” which are there on that particular step.



5. Screen name: RECIPE PAGE

This is the **RECIPE PAGE** screen; it will display the current cycle running & also we can edit cycle as per our requirements in it & all the cycle related functions are shown on this page. In this screen all the recipe files created will be displayed here and accordingly we can **load, edit, delete, copy or rename** a recipe file.



The above image shows the popup displayed whenever we want to perform following functions in recipe page shown in the blue figure.

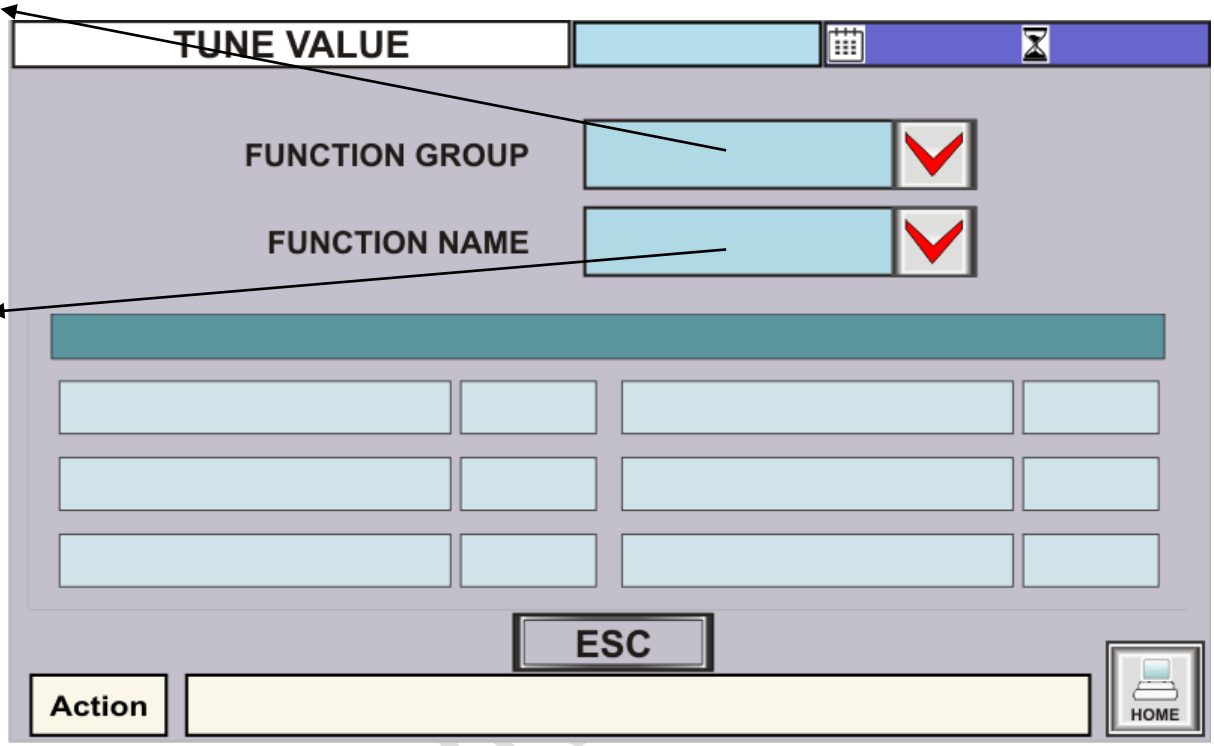
NOTE: - NEW RECIPE FILE WILL BE CREATED THE OLD RECIPE DATA

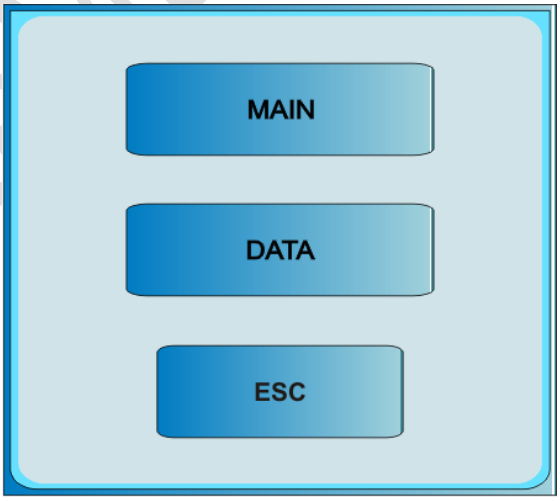
6. Screen name: TUNE VALUE

This is the TUNE VALUE screen; it will display all the constant parameters of main & data group. Tune value has different parameters depending on the function name selected.

This is the selection for function group.

This is selection for function name.

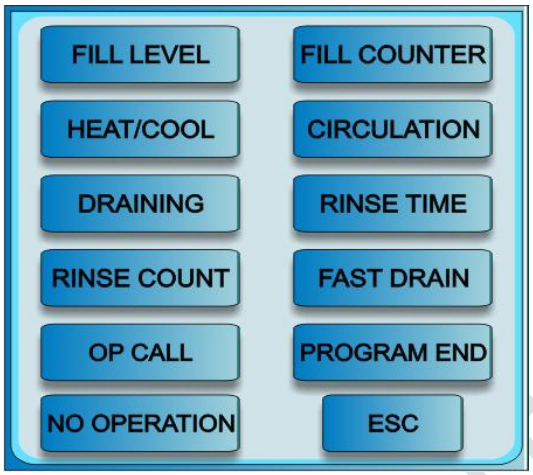


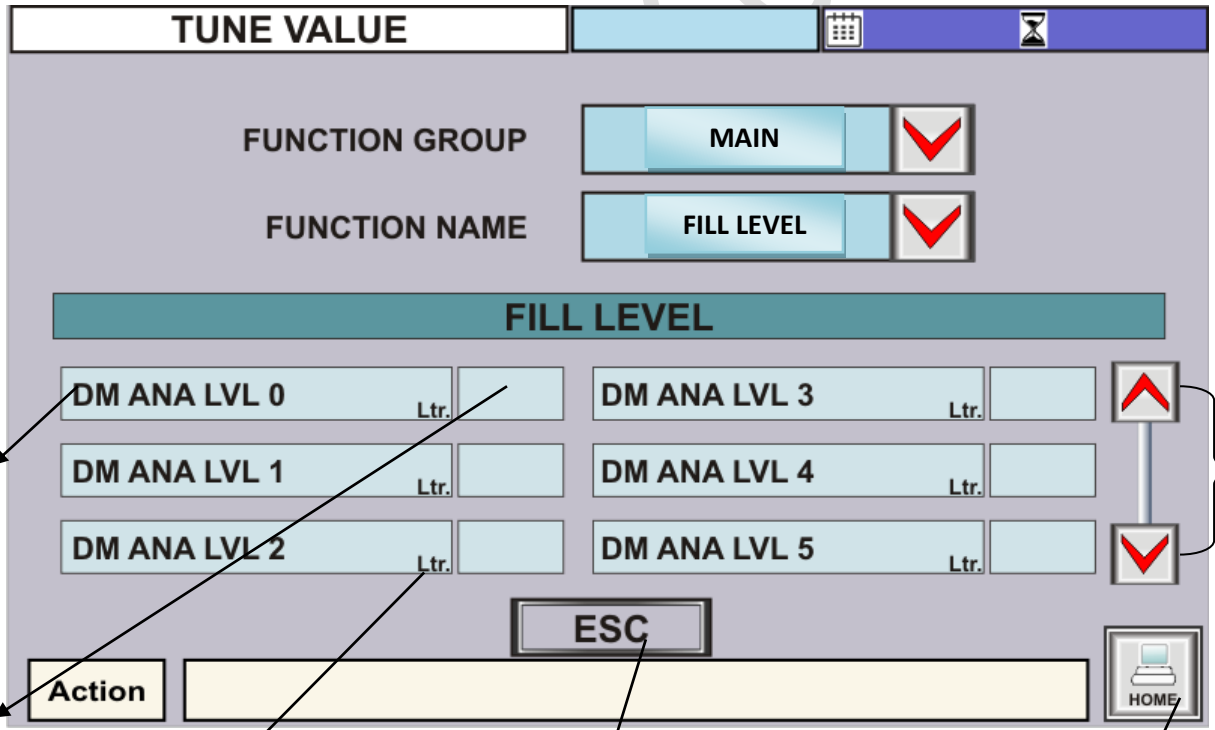


(This popup will display when function group key is pressed.)

- When the function group **"MAIN"** is selected the function name when pressed will show following popup menu & we have to select from the given options.

- For e.g.





This area shows parameter name.

This box shows value of that parameter.

Scrolling para-meter

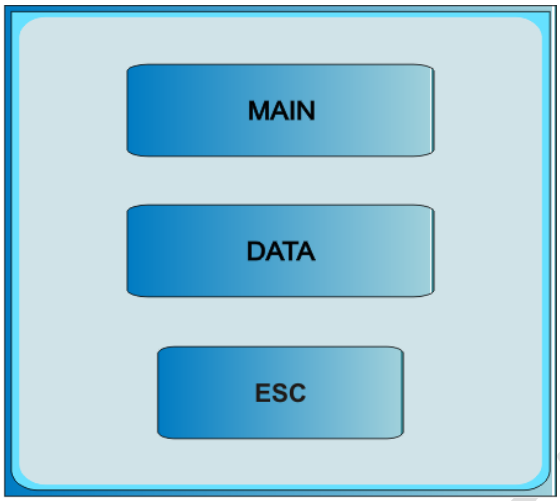
Parameter unit

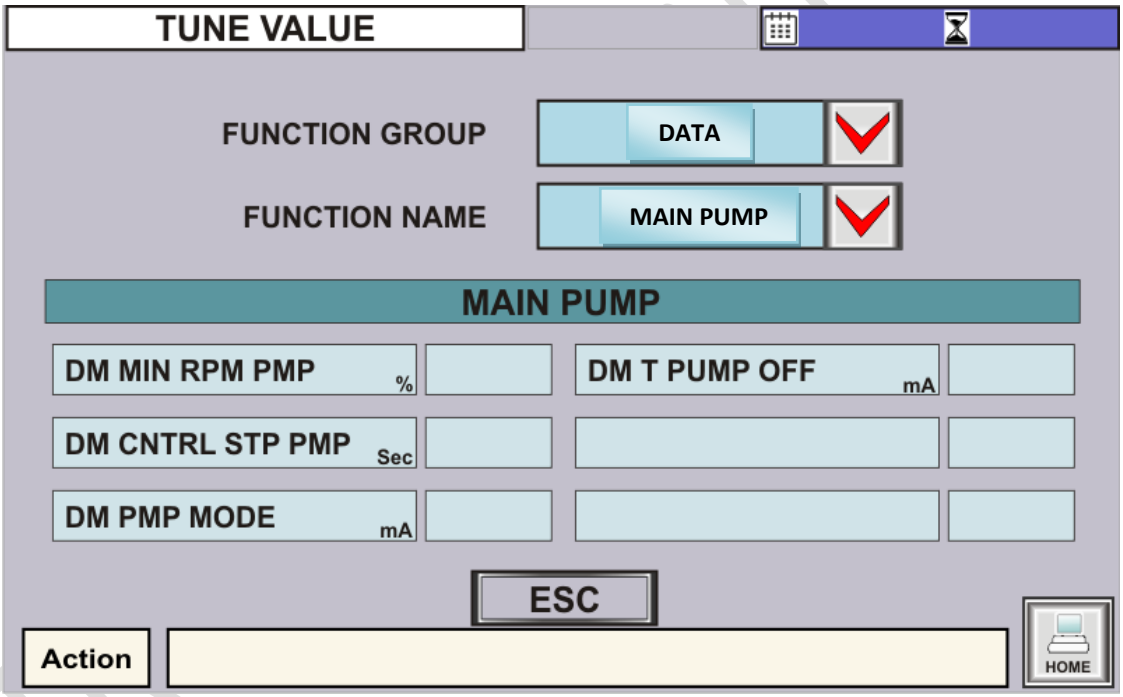
This is used for exiting the tune value page and jump to back page.

This button is used to get back to the home screen.

When the function group **"DATA"** is selected the function name when pressed will show following popup menu & we have to select from the given options.

For e.g.

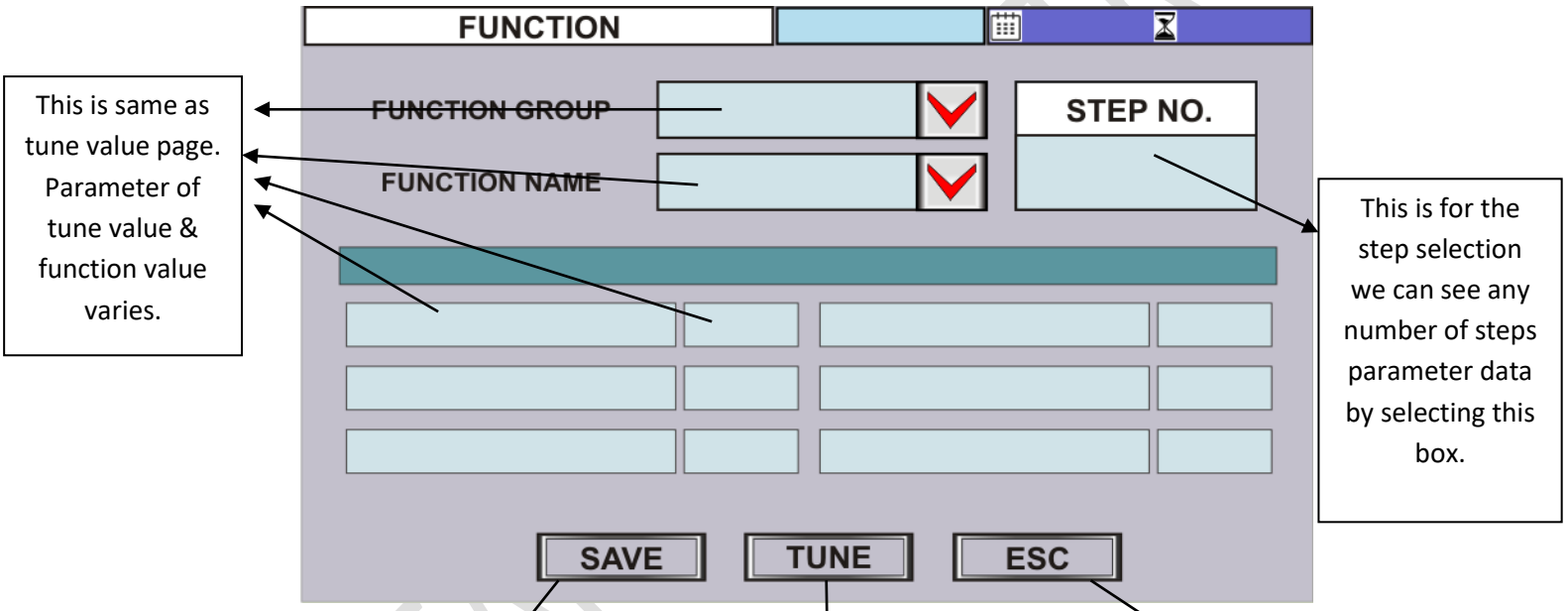




NOTE: The parameters for TUNE VALUE & FUNCTION PAGE are different from each other.

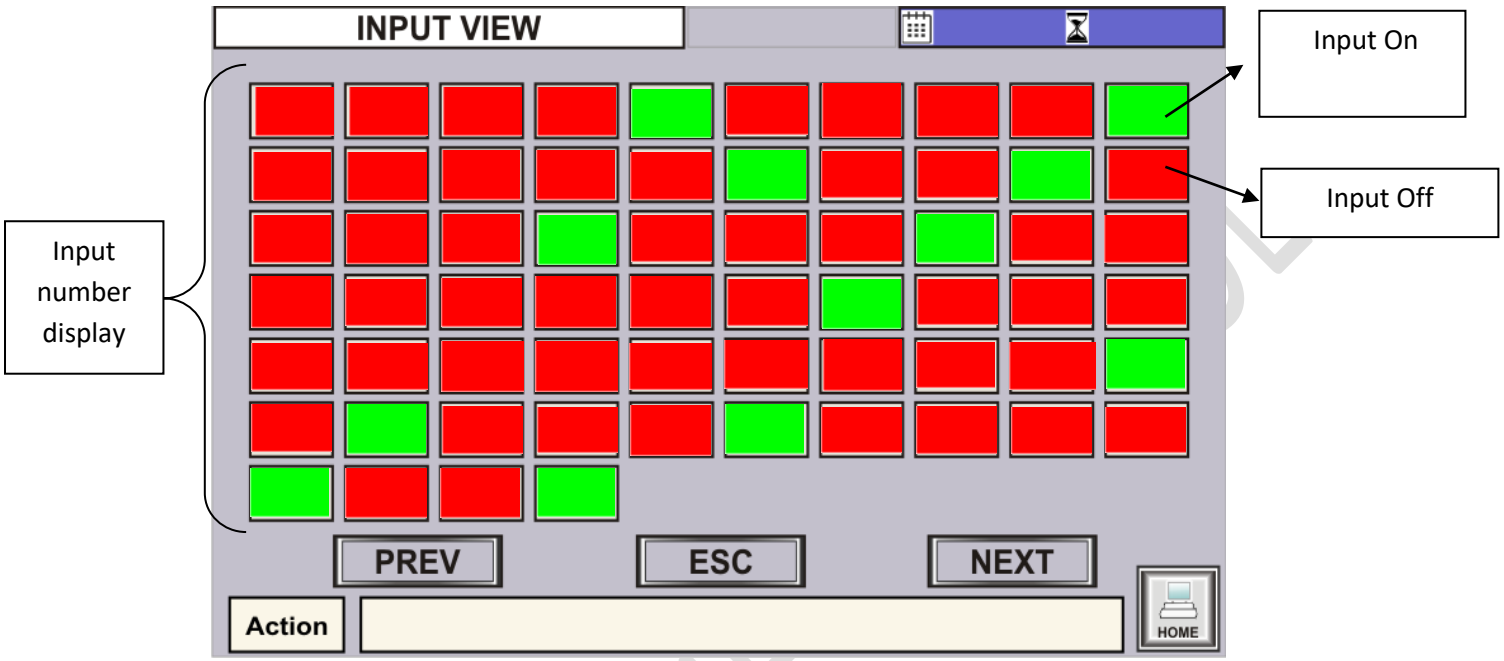
7. Screen name: FUNCTION PAGE

This is the FUNCTION PAGE screen; it will display all the function parameters of main & data group. Function page has different parameters depending on the function name & function group selected. It also displays the function name according to step number selected.

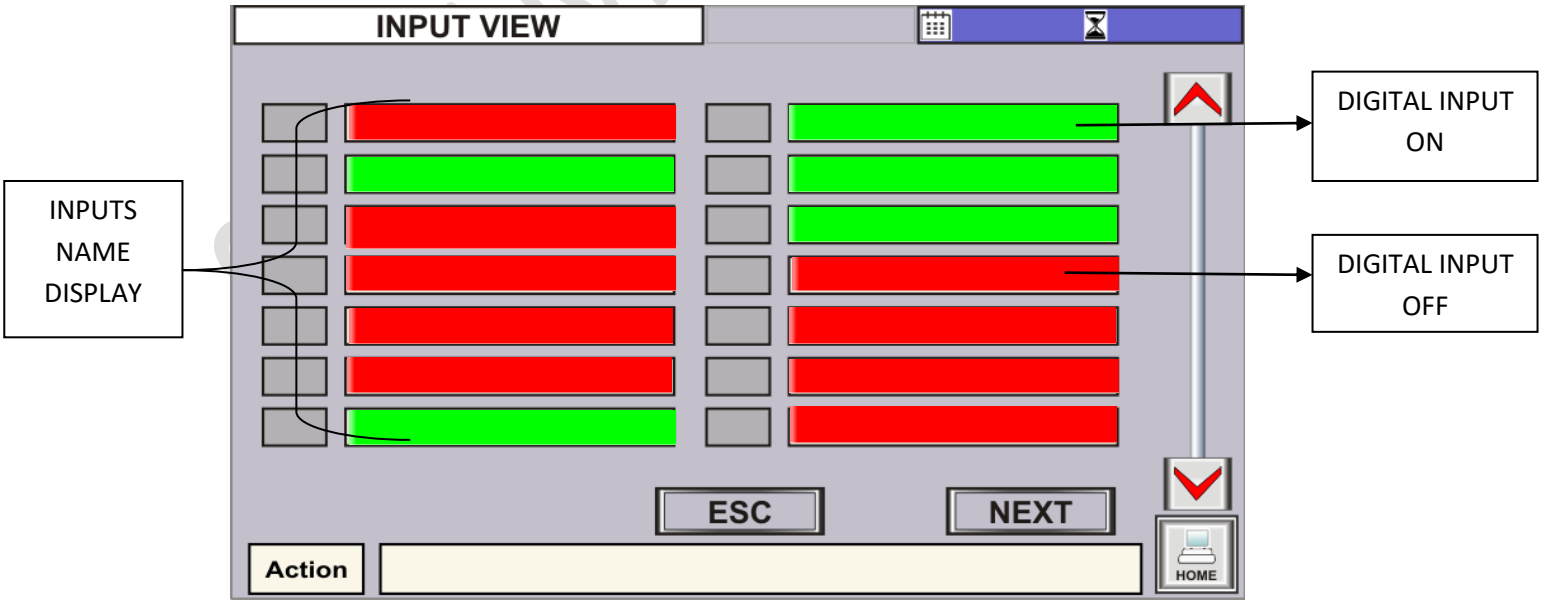


8. Screen name: INPUT PAGE

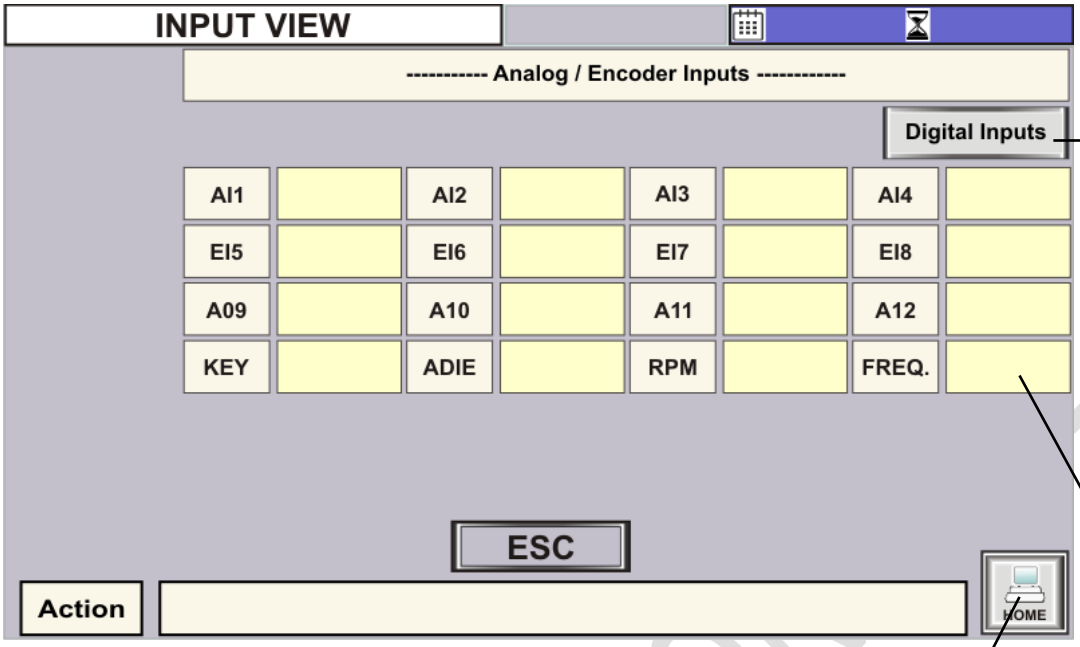
This is the INPUT PAGE screen; it will show which input channel is on or off.



INPUT STATUS (1)



INPUT STATUS (2)



INPUT STATUS (3)

8.1) INPUT STATUS (1):-

- This screen will simply show only digital input numbers only.
- In this screen you can see how many inputs are on and how many inputs are off.

8.2) INPUT STATUS (2):-

- In this screen you can see the names of digital inputs.
- You can see how many sensors are on and off.
- If you touch the scroll down arrow, you can see more input.
- You can see digital input 1 to 32.

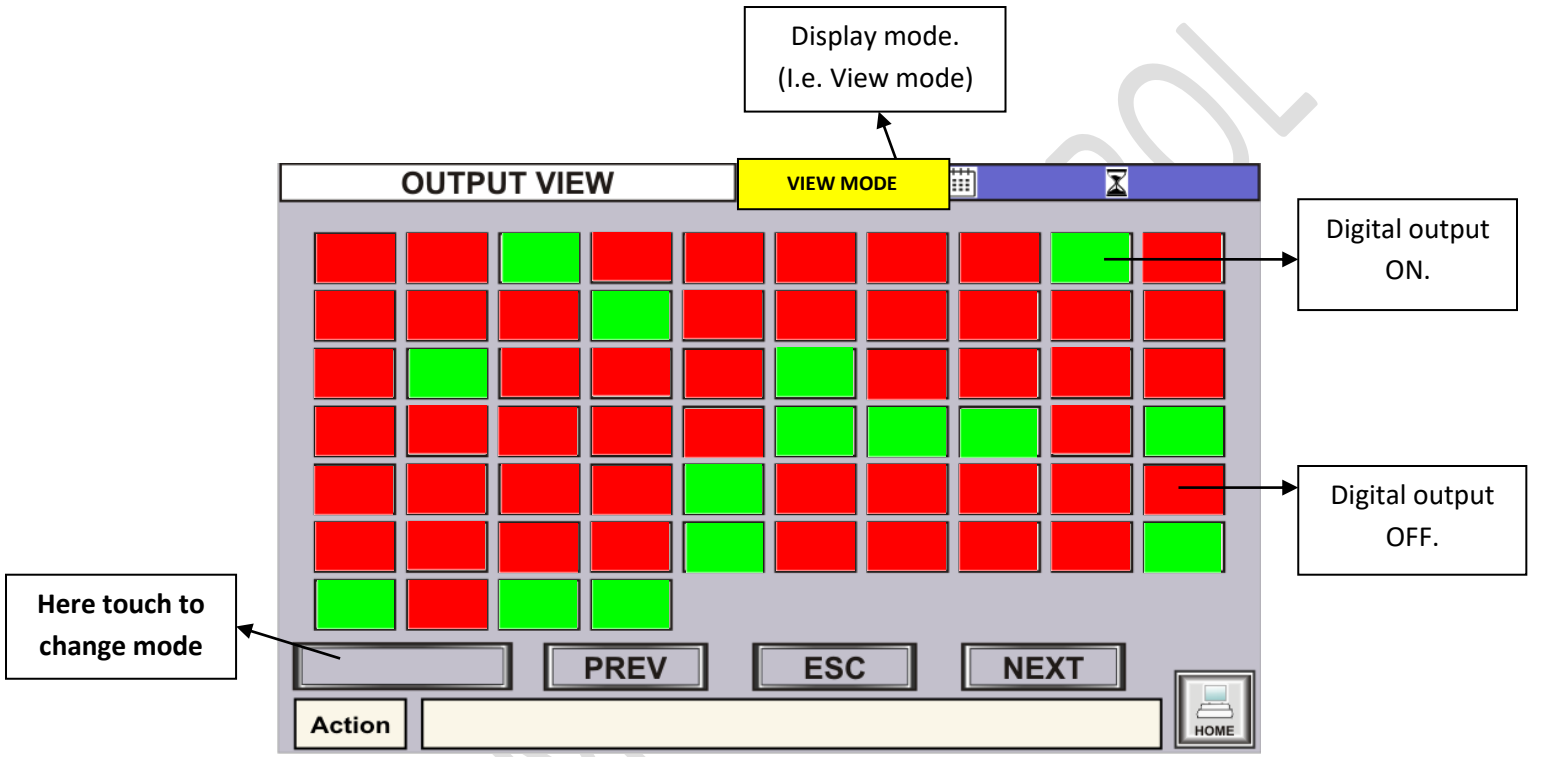
8.3) INPUT STATUS (3):-

- This gives analog values of the input channels.

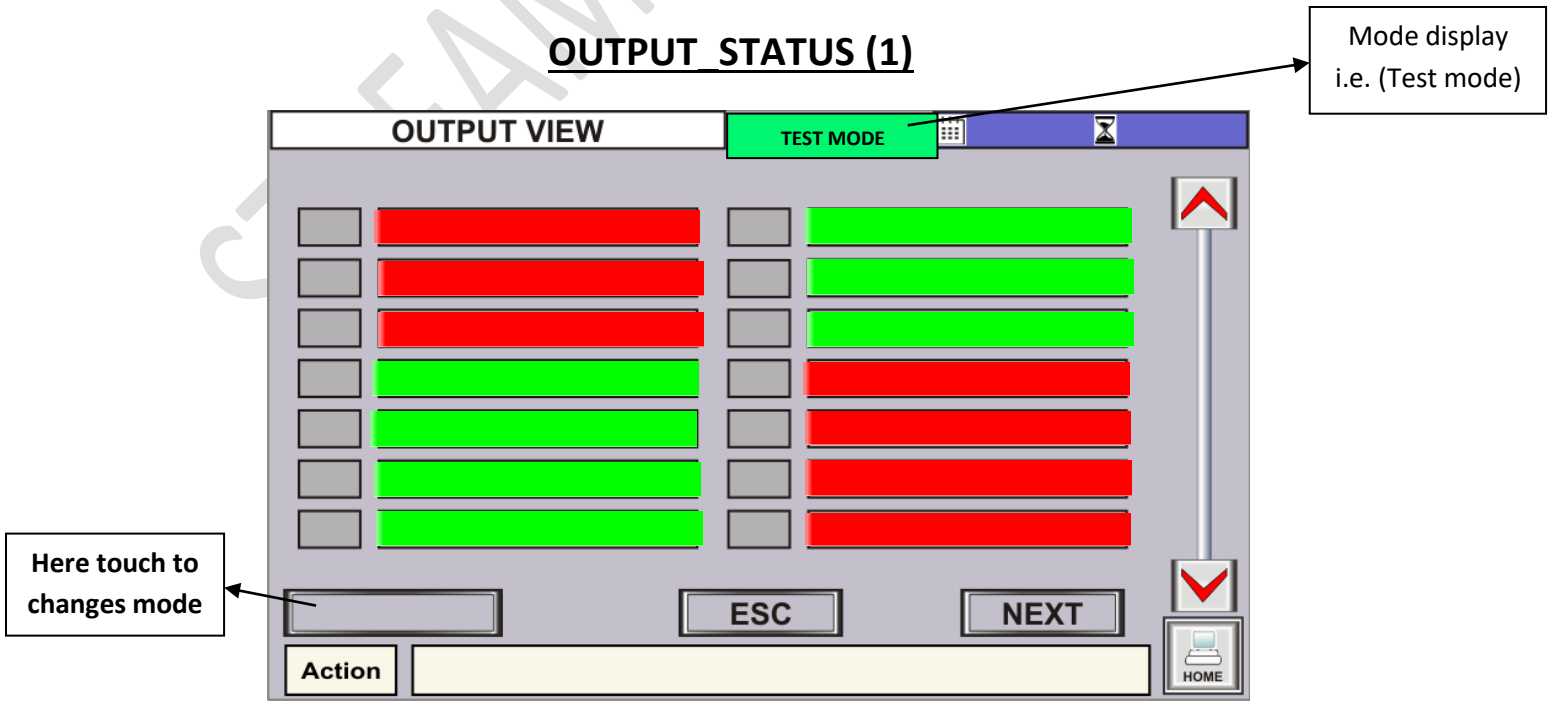
STREAMLINE CONTROLS

9. Screen name: OUTPUT PAGE

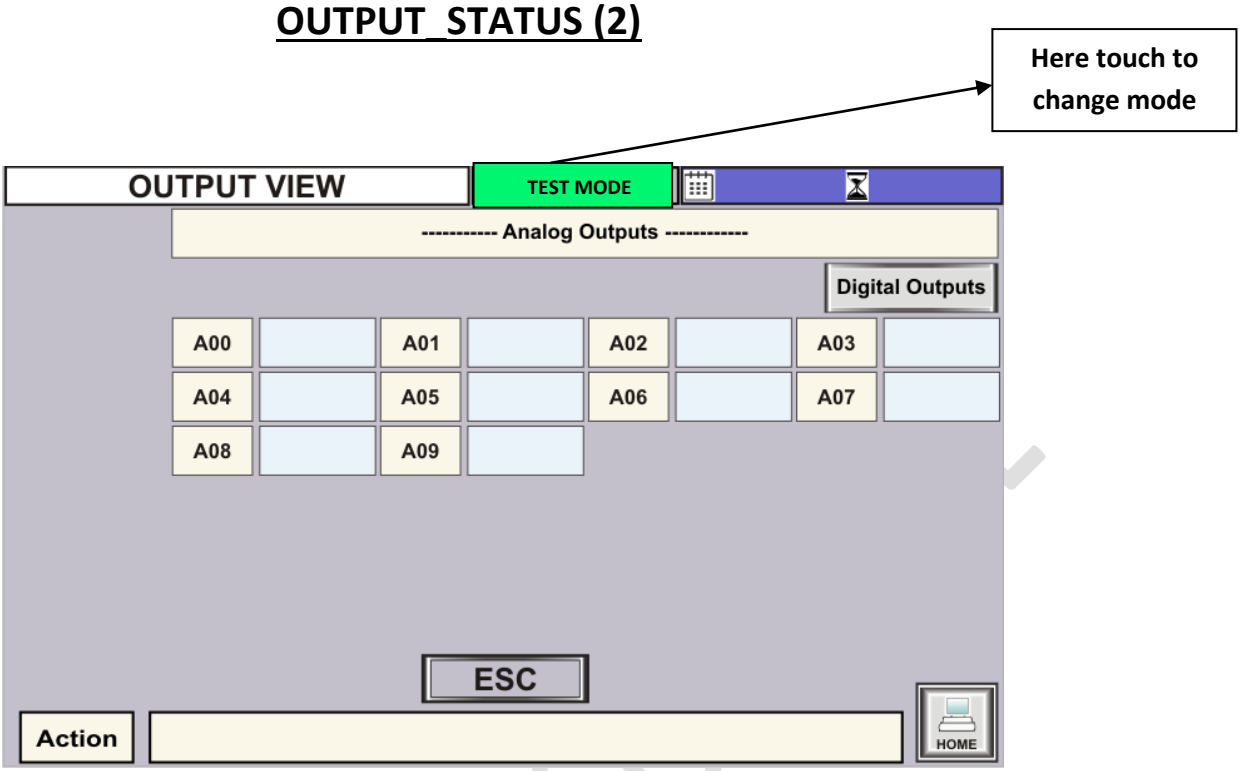
This is OUTPUT PAGE screen; in which you can see which output is on or off, and also output on or off one by one in test mode.



OUTPUT_STATUS (1)



OUTPUT_STATUS (2)



OUTPUT_STATUS (3)

- **There are 2 types of modes**
  - **View mode**
  - **Test mode**
- **Press once time (view or test) to change mode.**
- **View mode**
  - In view mode, you can only see the output on and off.
  - You can't change output.
- **Test mode**
  - In test Mode You can test all digital outputs.
  - You can change all digital outputs to 1 to 32.

STREAMLINE

- **OUTPUT STATUS (1):-**
  - This screen will simply show only digital output numbers only.
  - In this screen you can see how many outputs are on and off.

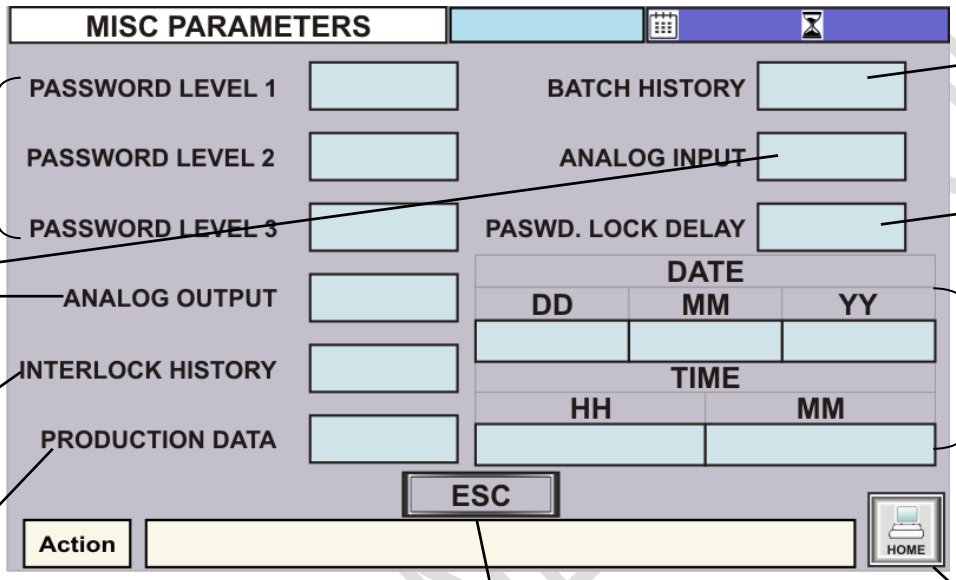
- **OUTPUT STATUS (2):-**
  - This screen is for viewing outputs only, if you have to output on / off, then pressing on the right side area after screen name will enable "DI-OP TEST MODE".
  - The output can be turned on and off by pressing on the corresponding output number (in OUTPUT STATUS (1) Page) or name (in OUTPUT STATUS (2) Page).
  - In this screen you can also see analog output status, and also its turn on manually on test mode by simply press on respective parameter box at that time test mode must be on.

- **OUTPUT STATUS (3):-**
  - This screen is for viewing and inserting voltages value for different channel voltages.
  - There are total of nine channels displayed on the screen which shows voltages of nine channels.

STREAMLINE CONTROL

10. Screen name: MISC Parameters.

- This page is used to set the password And RTC (Real Time Clock).
- You can also change the password and RTC from here.
- This page also resets values for production & interlock data.



These are for setting the password levels.

This is for selection of IC.

For resetting interlock data.

For resetting production data.

Batch history reset.

This Locks all the parameters opening after the entered number of minutes.

For setting date and time.

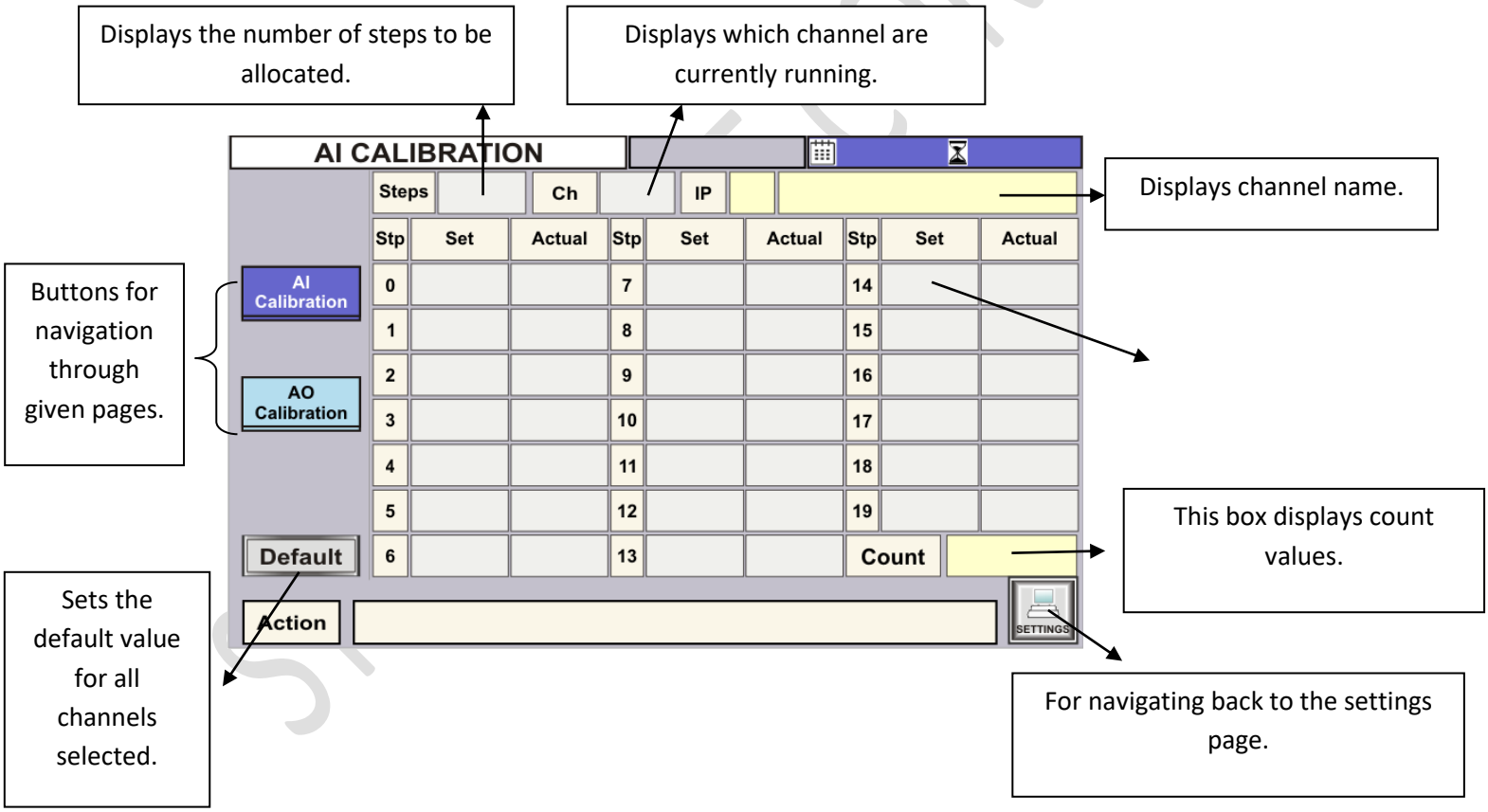
Jump to setting page

Go to monitor

STREAM LINE

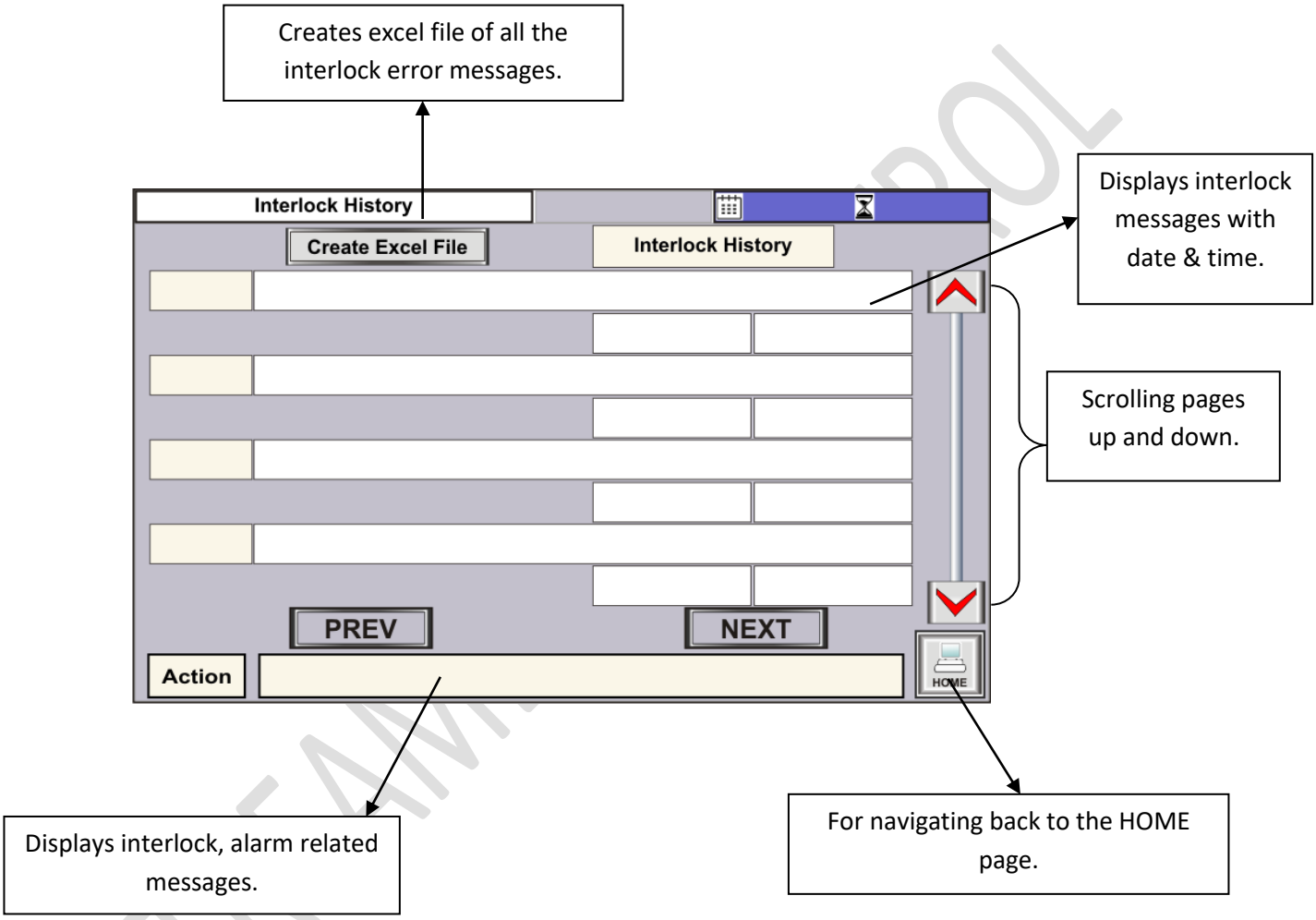
11. Screen name: Analog Input Calibration (AI CALIBRATION)

- This is Analog input calibration page; here there are no of steps, no of channels, set & actual value of the steps given.
- By setting this value we can see changes in the monitor page the image water will start filling in the container of image.
- Channel select the function you want to calibrate (for example select “ch-0” for pressure).
- Now, to select Steps, if 11 steps are selected then 11 steps will come.
- Now, set the value of the 10th step to any value desired after that press default.
- The average of the value will be printed on each step rows.



12.) Screen name: INTERLOCK HISTORY PAGE

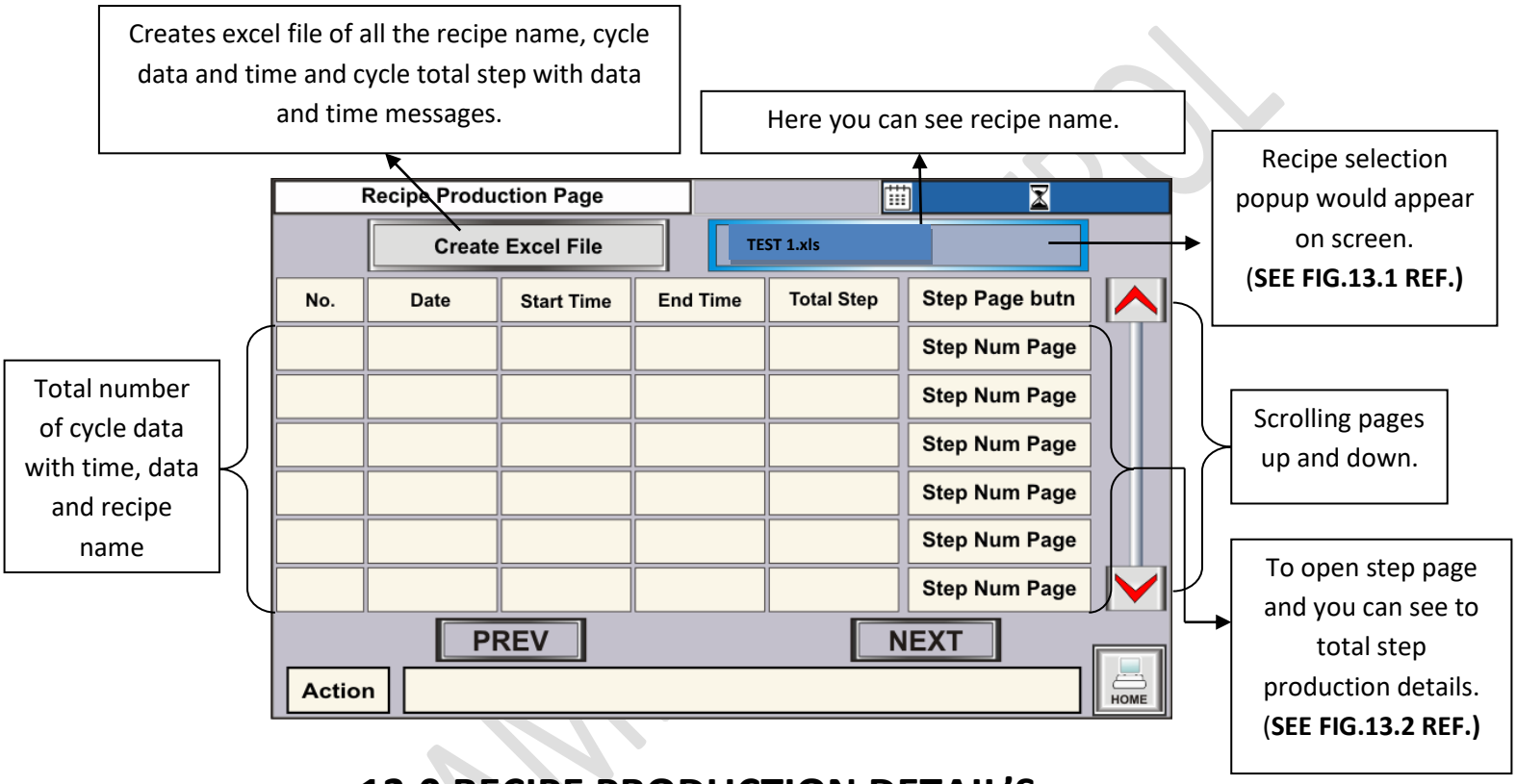
- It is a one type of alarm system which activate when cycle or any other function does not operate properly because of those abnormal condition it indicate **INTERLOCK**.



- It shows the interlock history of machine with date and time.
- In this machine it is known when the error occurred. And it is also showing time and data.
- If you touch on the "**Create Excel file**", Excel file of all error messages will be created.
- It will be stored in USB. If it is not installed USB then the excel file will not be created.

13.) Screen name: RECIPE PRODUCTION PAGE

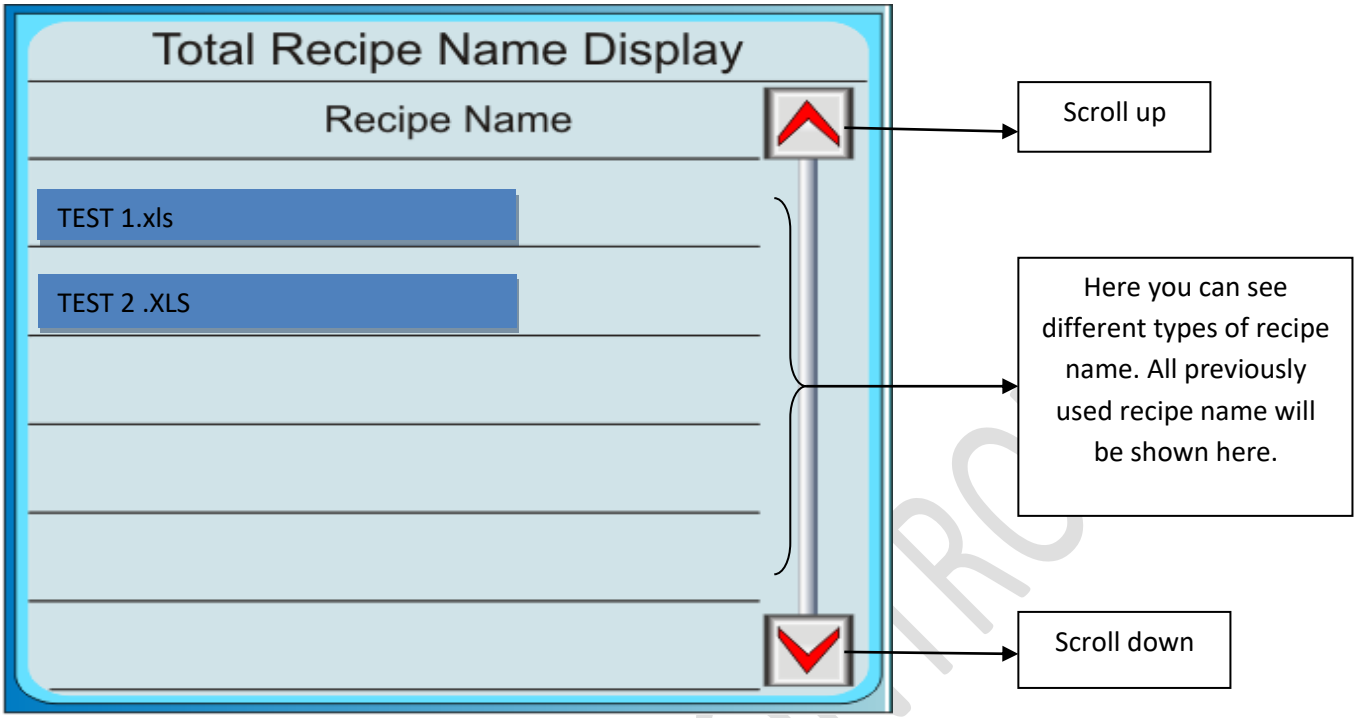
- In this page recipe production shows total number of cycle.
- If you touch on the "**Create Excel file**", Excel file of all recipe production messages will be created.
- It will be stored in USB. If it is not installed USB then the excel file will not be created.



13.0 RECIPE PRODUCTION DETAIL'S

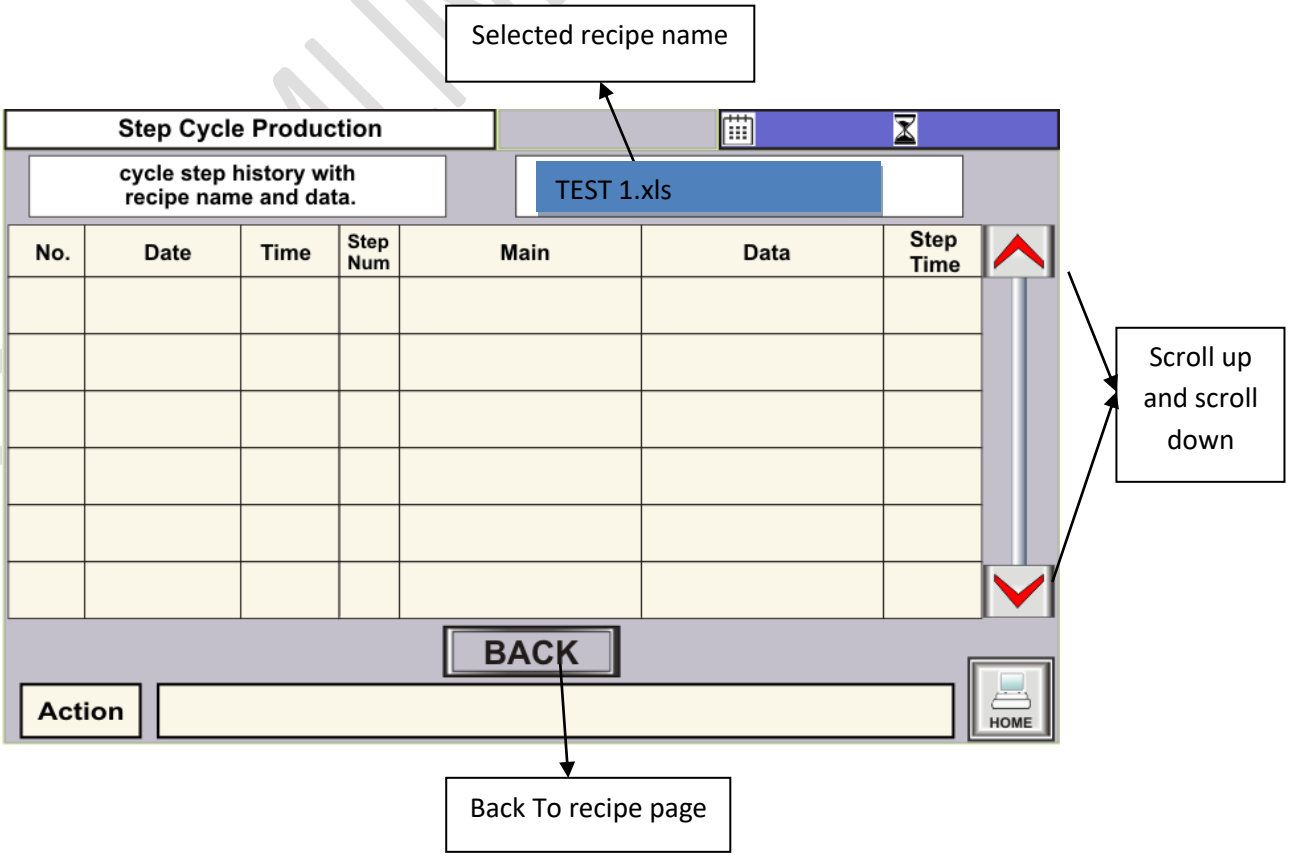
- The current recipe's cycle data would be shown.
- In this page, you can see the total number of cycle run by the current recipe.
- You can see date of the day the cycle was run, start time, end time and total step.
- if you want to see step history of any cycle data then touch **Step Num you can see Page.Fig.13.2**

- **TEST 1.XLS:-**
  - This is the recipe selection popup menu.
  - By touching recipe selection **fig.13.1** image would be open.



13.1 RECIPE SELECTION POPUP

- In this page total recipe name display.
- By touching on particular recipe name its data would be shown in **fig.13.0**.



13.2 STEP PRODUCTION DATA

- In this page step production page shows total number of steps.
- If you touch on the "**Create Excel file**", Excel file of all step production messages will be created.
- It will be stored in USB. If it is not installed USB then the excel file will not be created.
- In this page you can see the total step history of the selected cycle.
- Display date, step end time, step number, step group, step function and step total time.

- **BACK BUTTON:-**
  - This button let you jump to the recipe page.
  - You can see **fig.13.0.**

STREAMLINE CONTROL

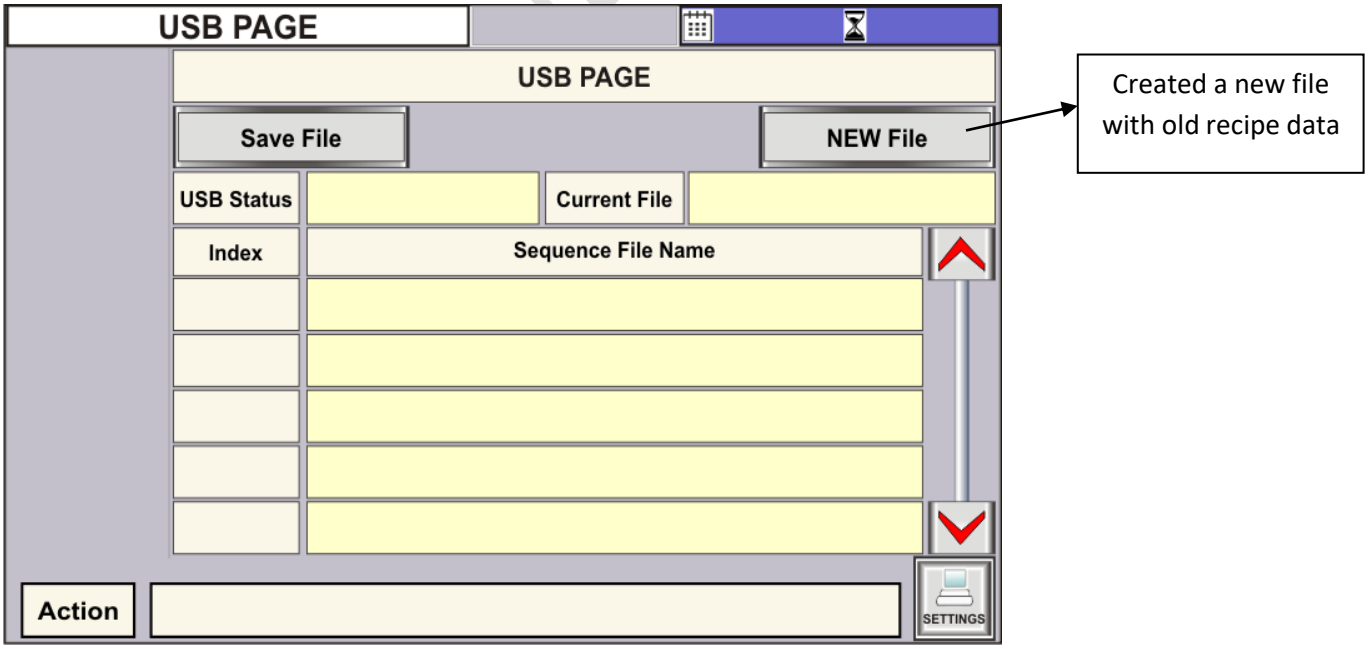
14. Screen name: USB PAGE

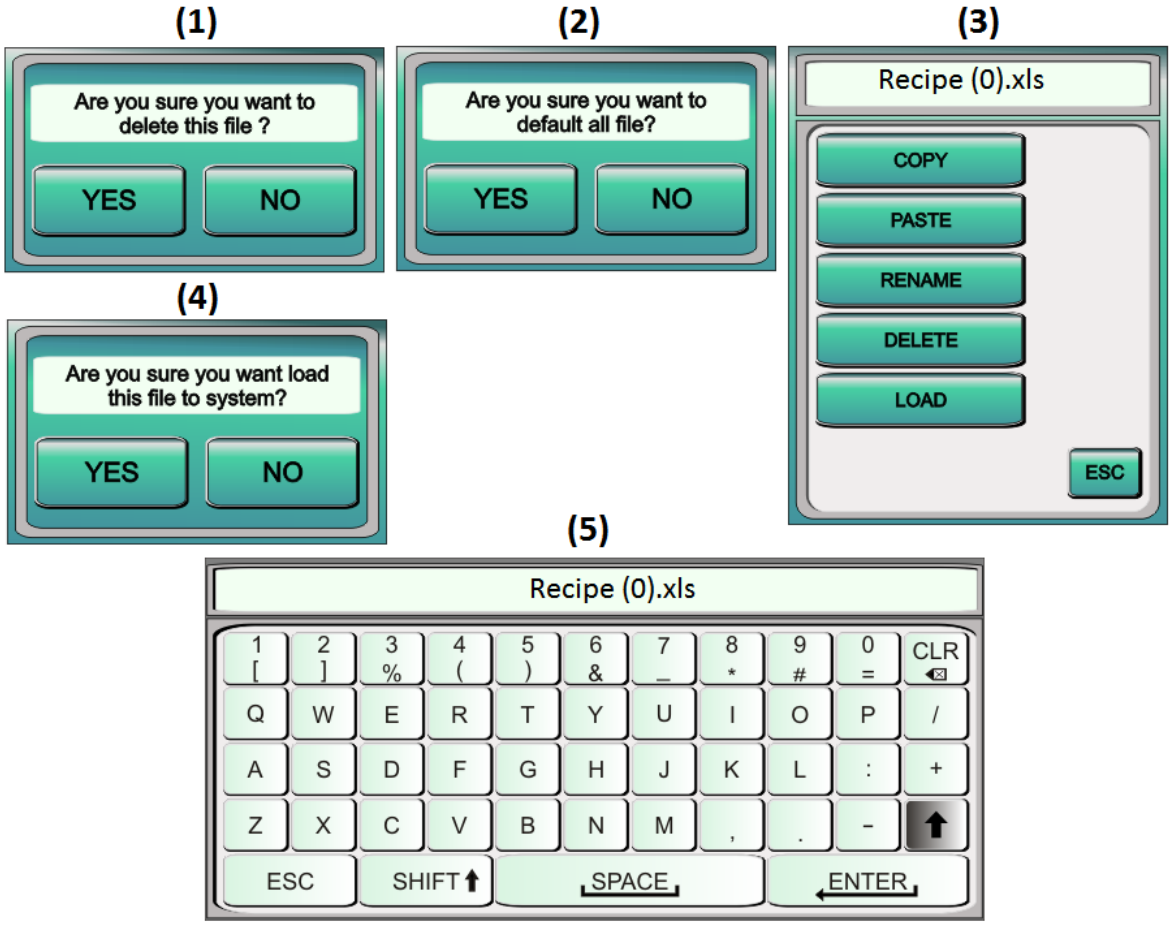
- **SAVE FILE**:-
  - You uploaded the recipe. And if you want to change the recipe, your recipe will be changed.
  - If you want to update the same recipe, then if you touch on the "**Save button**" then the recipe will be updated.

- **NEW FILE**:-
  - If you want to create a new recipe, then touch on "**New File**".
  - **A new recipe file will be created the old recipe data.**

- **CURRENT FILE**:-
  - Whatever recipe will be loaded here, you will see the name of that recipe file.

- **SD STATUS**:-
  - If the memory card is inserted, SD Status "**connected**" will be shown.
  - Otherwise, SD Status "**disconnected**" will be shown.





- **1ST IMAGE**:-
  - To delete any file.

- **2ND IMAGE**:-
  - To Default all file.
  - We are not doing these parameters now.

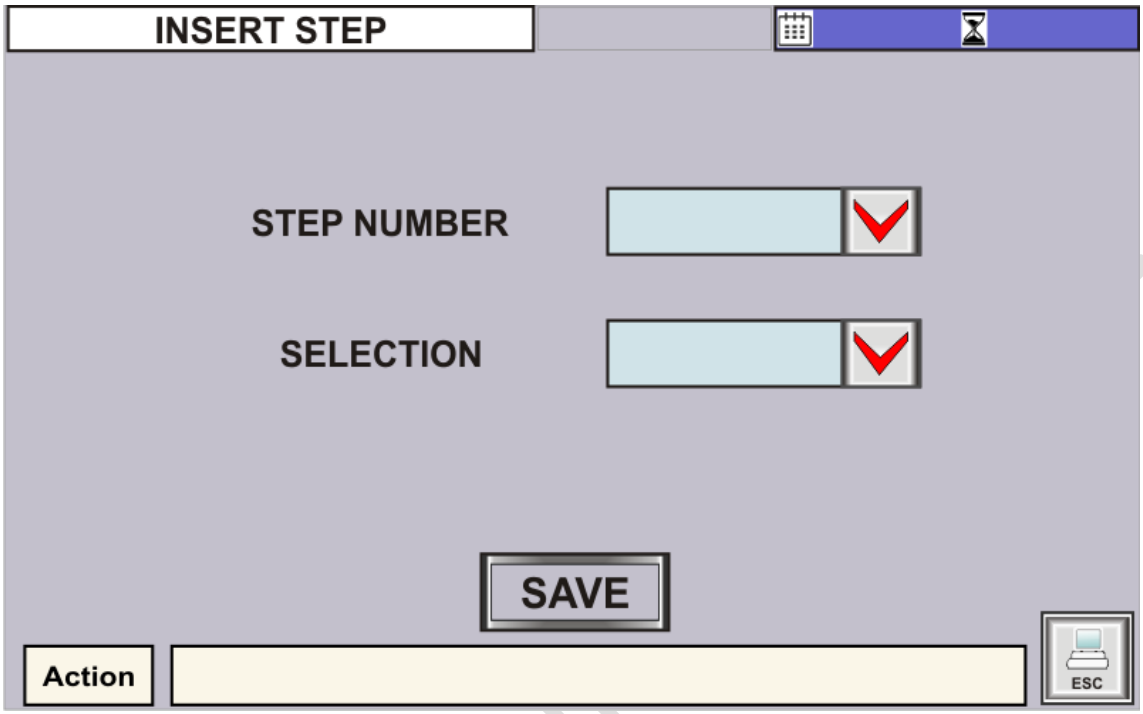
- **3RD IMAGE**:-
  - We can copy, load, rename, and delete whatever recipe is there.
  - You can also paste any other recipe.
  - And we can also transfer Recipe USB to Memory or Memory to USB.

- **4TH IMAGE**:-
  - Change the name of the recipe or edit a name of recipe.

STREAMLINE

15. Screen name: INSERT STEP PAGE

- In This Page you can add step number.

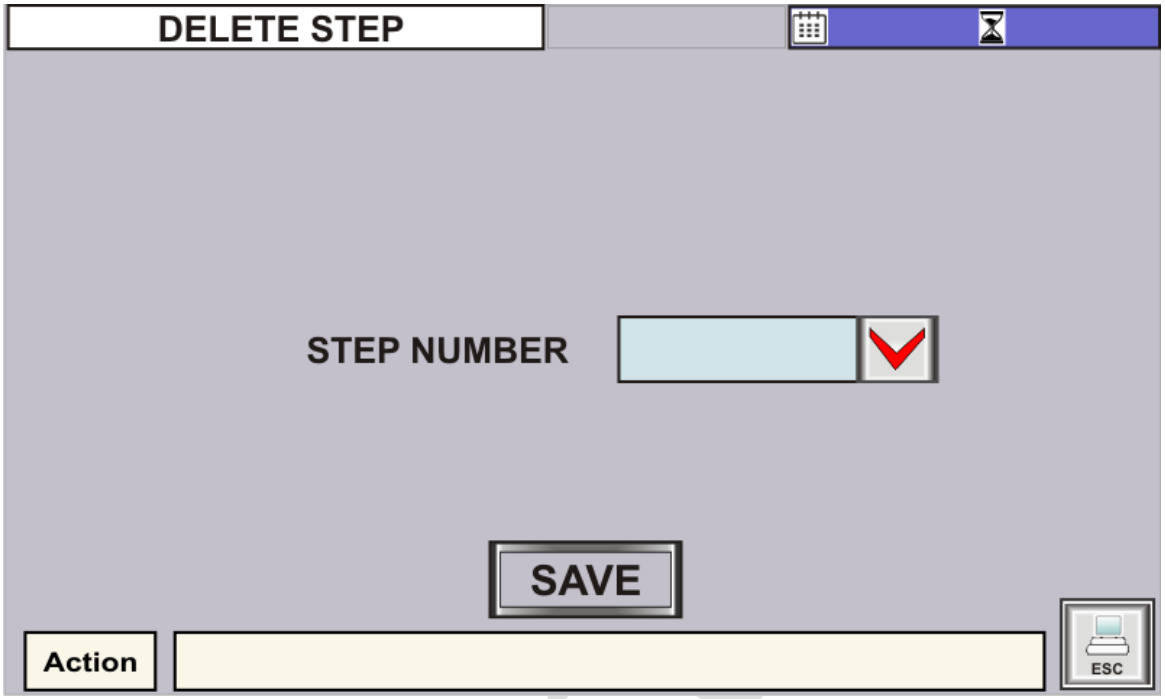


- **STEP NUMBER**:-
  - Select the Step Number where you want to insert.
- **SELECTION**:-
  - Here you can select to add **after** or **before** selected step number.
- **SAVE BUTTON**:-
  - Yes or no Confirmation popup appears for inserting the step.

STREAMLINE

16. Screen name: DELETE STEP PAGE

- In This Page you can delete step number.



- **STEP NUMBER**:-
  - Here you can select the step number to be deleted.

- **SAVE BUTTON**:-
  - Yes or no Confirmation popup appears for deleting the step.

- **Below mentioned images are the parameters lists of the function page and tune value parameters.**

STREAMLINE

Function Group	Function Name	Function Parameters	Tune Value Parameters
Main	Fill Level	Level DM (Ltr.)	DM ANA LVL 0 (Ltr.)
		Water Type	DM ANA LVL 1 (Ltr.)
			DM ANA LVL 2 (Ltr.)
			DM ANA LVL 3 (Ltr.)
			DM ANA LVL 4 (Ltr.)
			DM ANA LVL 5 (Ltr.)
			DM Max (Ltr.)
			DM Safety Temperature (*C)
			DM Depress (Sec)
			Pump Lvl Low
Main	Fill Counter	Water Quantity (Ltr.)	DM PLS/LTR (Ltr.)
		Water Type	DM Safety Temperautre
		Fill Method	Wait Depress
		Material Type	
Main	Heat/Cool	Temperature(*C)	DM HC SBYT (Sec)
		Gradient (C/min)	DM HC CWRT (Sec)
		Hold Time (Min)	DM HC CNTRL (Sec)
			DM PID WAIT(Sec)
			DM PID T AL(Sec)
			DM PID BAND (*C)
			DM PID CMT (Sec)
			DM PID CT (Sec)
			Intergral Time (Sec)
			Proportional Band (*C)

i.) Main function Group Parameter List.

Main	Circulation		
		Hold Time (Min)	NA
Main	Draining	Drain Type	DM Drain Time (Sec)
		Level DM (Ltr.)	Wait Depress (Sec)
			DM Safety Temp (*C)
			Drain OverFlow
Main	Rinse Time		
		Hold Time (Min)	DM Safety Temperature (*C)
		Water Type	
		Rinse TM Temp	
Main	Rinse Count	Water Quantity (Ltr.)	DM Safety Temperature (*C)
		Water Type	
		Rinse CN Temperature	
Main	Fast Drain	Drain Type	DM Drain Time (Sec)
		Level DM (Ltr.)	Wait Depress (Sec)
			DM Safety Temperature (*C)
			Drain Overflow
Main	OP Call	Call Users	Htr On Time (Sec)

ii.) Main function Group Parameter List. (Cont.)

Data	**Main Pump**	Pump Speed	DM Min. RPM Pump (%)
			DM Cntrl Stop Pump
			DM Pump Mode (mA)
			DM T Pump Off (Sec)
Data	**Reel**	Reel Active	DM T ON Reel (Sec)
		Reel Speed (m/min)	DM Reel SP 4 miliA (Mtr./Min)
			DM Reel SP 20 miliA (Mtr./Min)
Data	**Airpad**	Airpad Temperature (*C)	Airpad Temperature (*C)

iii.) Data function Group Parameter List.

STREAMLINE CONTROL