

User Operation Manual

W6584

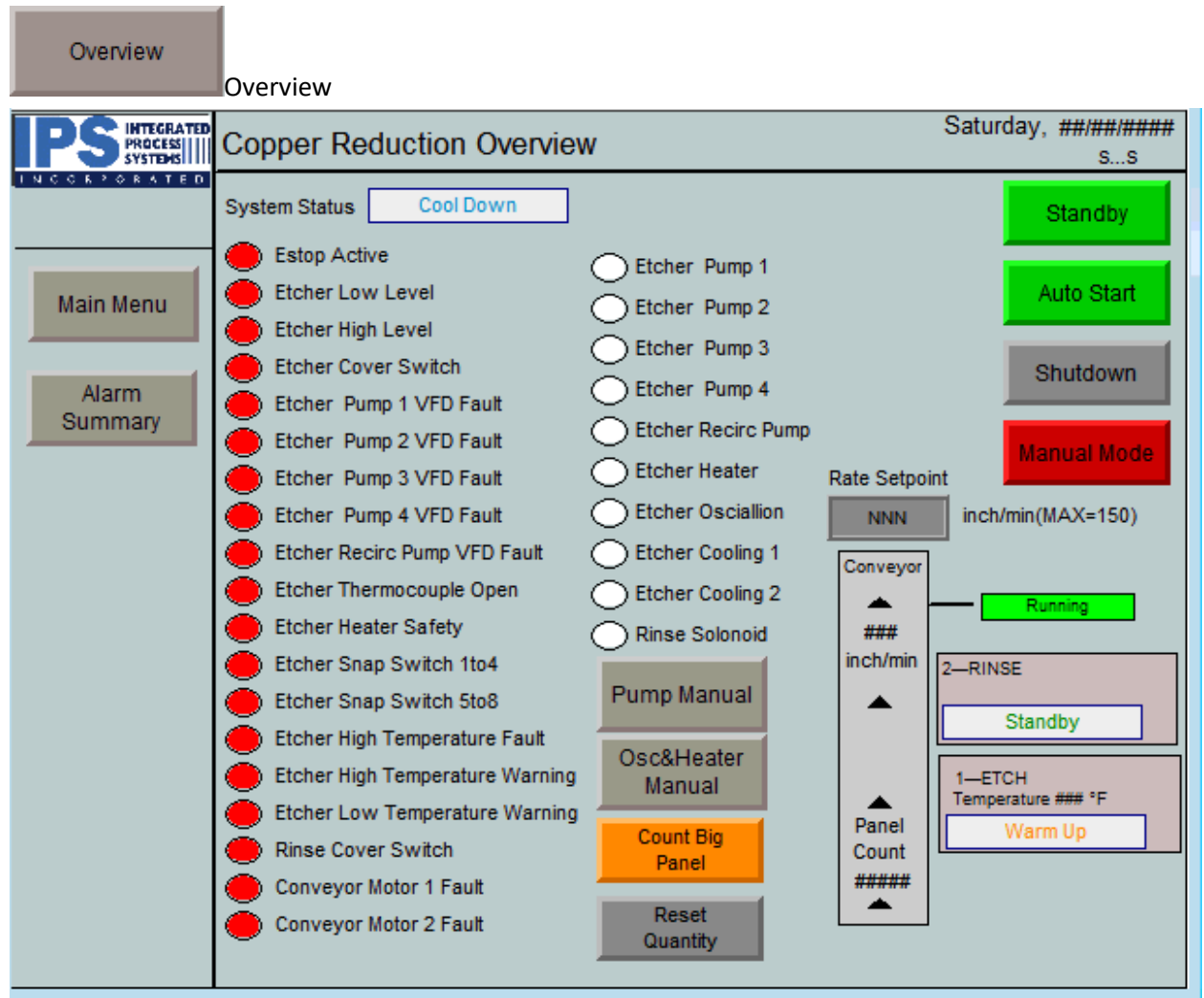
Atalas Die

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Etcher Page 3

1.1 Overview

Control



1.1.1 Line Status

This page shows the status of each module and the conveyor status.



This shows the System Status.

Idle: Just powered up and without any process.

Manual: Under manual control. Maintenance should be the one to operate this.

Standby: Standby is used for heating the tank up to the set range and the recirc pump is on at this status.

Stopped: The line is stopped.

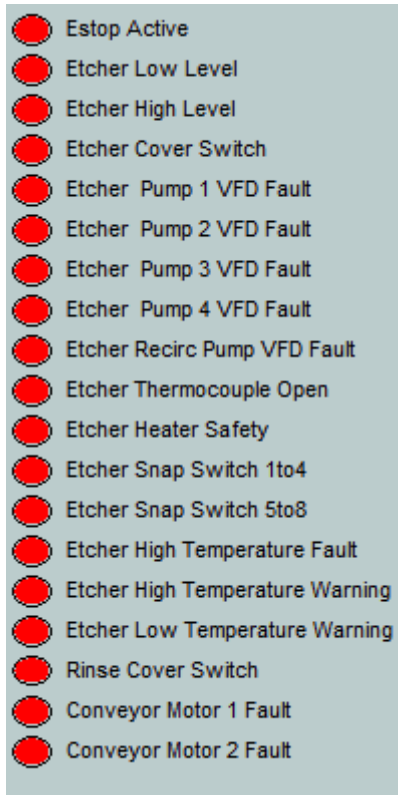
Running Auto: The line is running normally in auto mode.

Faulted: There is something wrong with the line, please check the light on the left side to see what the problem is. Or go to alarm screen to get the fault information.

E-Stop Active: The E-Stop button is active at this moment.

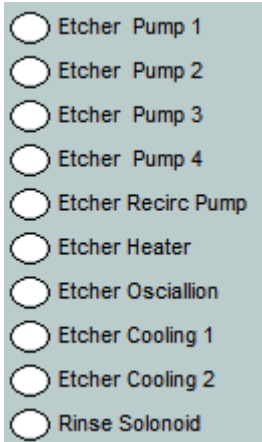
Cool Down: When the Dryer is cooling down the temperature after a full process. (My not have it here in this machine)

1.1.2 Alarm status



On the left side, the alarm status shows here. Green for no issue and Red for alarm.

1.1.3 Pump and other parts on/off status.



Here shows the parts running on/off status.
White for not running and green for running.

1.1.4 Function Button

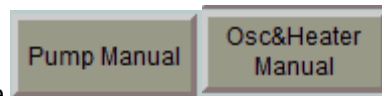


Standby: Standby is used for heating the tank up to the set range and the recirc pump is on at this status. Hit the button to turn on Standby Mode.

Running Auto: The line is running normally in auto mode. Hit the button to turn on the Auto Mode.

Shutdown: Hit the button to shutdown the line which include the all the modes.

Manual: Under manual control. Maintenance should be the one to operate this. Hit the button



to turn on the Manual mode then the Manual screen access comes out.

1.1.5 Panel count

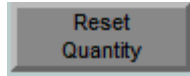


All sensor count as one panel.



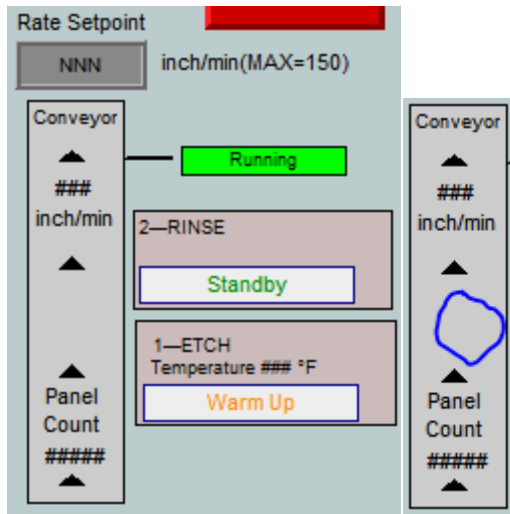
Each sensor count as one panel.

Hit the button to size the panel then it can be counted.



Hit the button to reset the panel quantity.

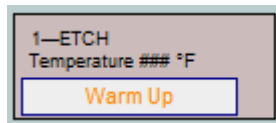
1.1.6 Line process



The conveyor speed can be set here. Please notice the MAX speed.

And the current speed shows here.

Hit the blue area to go the conveyor setting screen.



Hit the Etch area here for Etcher setting screen.



Hit the Rinse area here for Rinse setting screen.

1.2

1. Module 1

Module 1 Etcher Saturday, ##### S...S

Module Status: **Warm Up**

Start Run
Start Standby
Stop Module

Main Menu
Back
Alarm Summary
OverView

Module Alarms

- ☒ Estop Active
- ☒ Etcher Low Level
- ☒ Etcher High Level
- ☒ Etcher Cover Switch
- ☒ Etcher Pump 1 VFD Fault
- ☒ Etcher Pump 2 VFD Fault
- ☒ Etcher Pump 3 VFD Fault
- ☒ Etcher Pump 4 VFD Fault
- ☒ Etcher Recirc Pump VFD Fault
- ☒ Etcher Thermocouple Open
- ☒ Etcher Heater Safety
- ☒ Etcher Snap Switch 1to4
- ☒ Etcher Snap Switch 5to8

Oscillation (MAX=45RPM)

Chamber 1
NN RPM Status

Chamber 2
NN RPM

In Auto mode, oscillation will not turn on until the temperature and PSI are in range.

Temperature Control

Process Actual Temp: ###.#°F
Temp Setpoint: NNN.N °F

☒ Hi Hi Alarm
☒ Hi Alarm Active
☒ Low Alarm Active
☒ At Setpoint
☐ Heater On
☐ Cooling On

	Pump1 Chamber1 Lower	Pump 2 Chamber1 Upper	Pump 3 Chamber2 Lower	Pump 4 Chamber2 Upper	Pump 5 Recirc Pump
Pump On	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Set PSI	NN.N	NN.N	NN.N	NN.N	
Reading PSI	##.#	##.#	##.#	##.#	
Faulted	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

1.2.1.1 Module Status

- Off : Not running
- Auto : Auto running mode. Oscillation, heater, pump are all on (id been set on)
- Standby: Only the heater and recirc pump on.
- Manual: The module is under manual control.
- Fault: There is something wrong here please check the alarm light on the left side or the alarm screen to find out the issue.
- Warm up: Standby or Auto started, need time to heat the water or chem.

1.2.1.2 Oscillation

Oscillation (MAX=45RPM)

Chamber 1

RPM Status

Chamber 2

RPM

In Auto mode, oscillation will not turn on until the temperature and PSI are in range.

The RPM can be set here or oscillation. And also shows the status.

In Auto mode, oscillation will not turn on until the temperature and PSI are in range.

1.2.1.3 Temperature Control

Temperature Control

Process Actual Temp

###.##°F

Temp Setpoint

°F

☒ Hi Hi Alarm

☒ Hi Alarm Active

☒ Low Alarm Active

☒ At Setpoint

☐ Heater On

☐ Cooling On

The temp setpoint can be set here. Please see the system config for alarm setting. MIN:50,MAX:150,Ramp Value:0.5

Heater and cooling status shows here to see if it is on or off.

1.2.1.4 Pumps

	Pump1 Chamber1 Lower	Pump 2 Chamber1 Upper	Pump 3 Chamber2 Lower	Pump 4 Chamber2 Upper	Pump 5 Recric Pump
Pump On	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Set PSI	NN.N	NN.N	NN.N	NN.N	
Reading PSI	##.##	##.##	##.##	##.##	
Faulted	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The pump PSI can be set here for auto mode and it shows the pump status.

2. Module 2 Rinse

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Module 2—Rinse Saturday, ####/####/#### S...S

Module Status: **Standby**

Start Run

Stop Module

Main Menu

Back

Alarm Summary

OverView

Module Alarms

- Estop Active
- Rinse Cover Switch

Fresh Water Spray	Status	Manual Control
Rinse Solenoid	●	Rinse On Rinse Off
Start Distance	NNN.N	inch
Stop Time	NNN	minutes

Rinse solenoid will remain on for set time after last panel leaves the rinse.

1.2.2.1 Module Status

- Off : Not running
- Auto : Auto running mode. Oscillation, heater, pump are all on (id been set on)
- Standby: Only the heater and recric pump on.
- Manual: The module is under manual control.
- Fault: There is something wrong here please check the alarm light on the left side or the alarm screen to find out the issue.

1.2.2.2 Rinse Solenoid

It can manually be turned on/off here.

1.2.2.3 Started Distance

It is the distance from input sensor to the rinse.

1.2.2.4 Stop Time

Rinse solenoid will remain on for set time after last panel leaves the rinse.

3. Conveyor

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SYSTEMS
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Conveyor Saturday, ####/#### S..S

Module Status **Stopped**

Main Menu

Back

Alarm Summary

Start conveyor

Stop conveyor

Product Conveyor Control

Rate Setpoint

NNN inch/min(MAX=150)

☐ Conveyer Running

Current Speed

inch/min

Module Alarms

☒ Estop Active

☒ Conveyor Motor Fault

1.2.3.1 Module Status

- Running
- Stopped

1.2.3.2 Product Conveyor Control

The speed can be set here for auto mode.

1.2.3.3 Start Conditions

- Oscillation needs to be On.
- Auto mode needs to be On.
- No alarm.
- Or under manual control.

Module 1 Etcher

Saturday, #####
S...S

Module Status Warm Up

Osc&Heater Manual

Main Menu

Back

Alarm Summary

OverView

Module Alarms

- Estop Active
- Etcher Low Level
- Etcher High Level
- Etcher Cover Switch
- Etcher Pump 1 VFD Fault
- Etcher Pump 2 VFD Fault
- Etcher Pump 3 VFD Fault
- Etcher Pump 4 VFD Fault
- Etcher Recirc Pump VFD Fault
- Etcher Thermocouple Open
- Etcher Heater Safety
- Etcher Snap Switch 1to4
- Etcher Snap Switch 5to8

	Pump1 Chamber1 Lower	Pump 2 Chamber1 Upper	Pump 3 Chamber2 Lower	Pump 4 Chamber2 Upper	Pump 5 Recirc Pump
Pump On	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Set PSI	NN.N	NN.N	NN.N	NN.N	
Reading PSI	##.##	##.##	##.##	##.##	
Faulted	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Manual On	<input type="button" value="On"/>	<input type="button" value="On"/>	<input type="button" value="On"/>	<input type="button" value="On"/>	<input type="button" value="On"/>
Manual Off	<input type="button" value="Off"/>	<input type="button" value="Off"/>	<input type="button" value="Off"/>	<input type="button" value="Off"/>	<input type="button" value="Off"/>

Basically it shows the same view like auto control but with the manual button to manual turn the parts on/off.

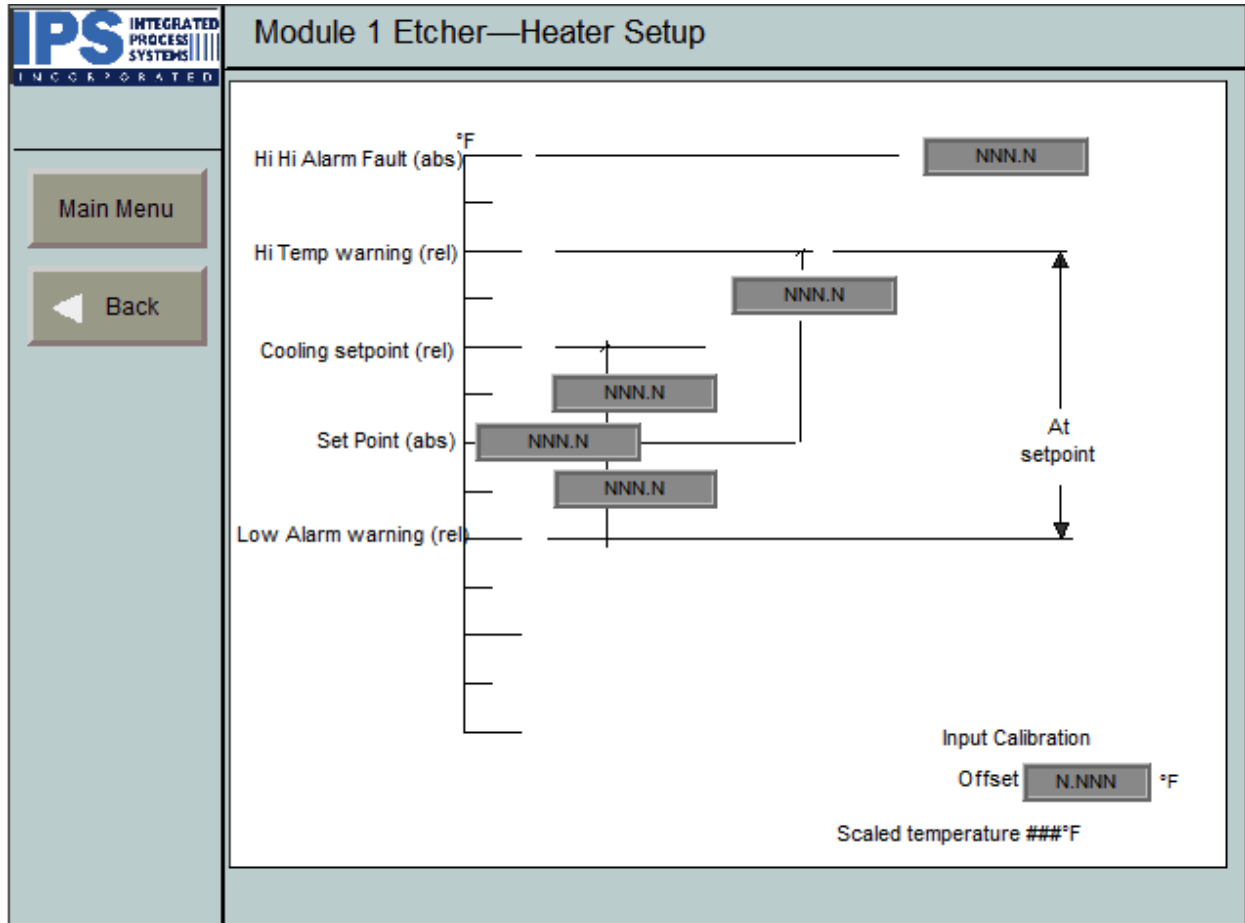
2. Administration

2.1 System Configuration

The screenshot shows a software interface for system configuration. On the left is a vertical sidebar with the 'IPS' logo at the top and a 'Main Menu' button. The main area is titled 'Configuration Main Menu' and contains four configuration options, each with a button and a label: 'Heater Configuration' (Configuration—Module 1—Heater), 'Oscillation 1 Configuration' (Configuration—Module 1—Oscillation 1), 'Oscillation 2 Configuration' (Configuration—Module 1—Oscillation 2), and 'Pump Configuration' (Configuration—Module 1—Pump). Below these is a text block for 'Maintenance time out setting' explaining that the machine goes to standby if no panels are detected after a set time, and that 0 minutes disables the function. A text input field with 'NNN' and the label 'minutes' is provided for setting the time. An 'HMI Config' button is in the bottom right corner.

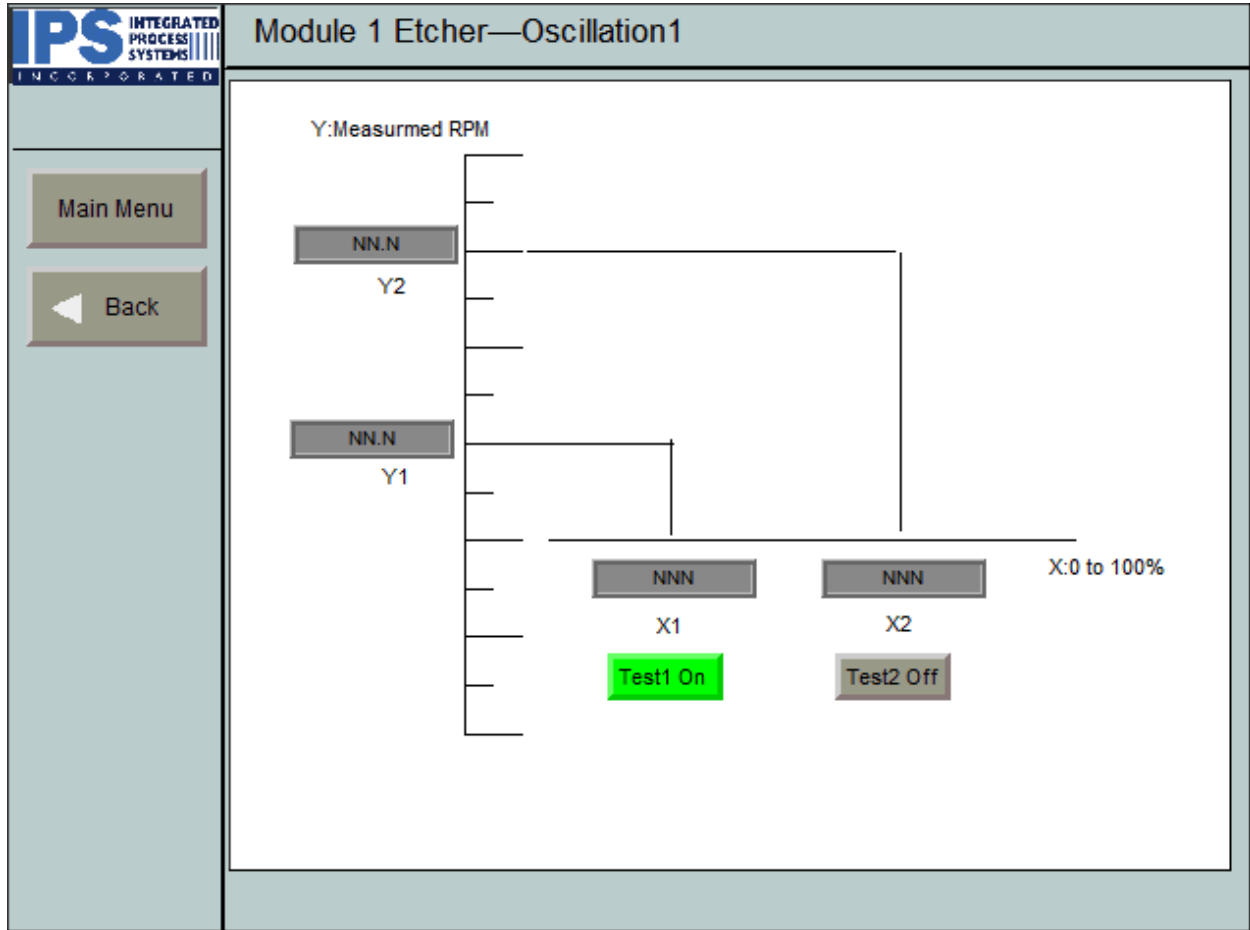
Configuration Main Menu	
Heater Configuration	Configuration—Module 1—Heater
Oscillation 1 Configuration	Configuration—Module 1—Oscillation 1
Oscillation 2 Configuration	Configuration—Module 1—Oscillation 2
Pump Configuration	Configuration—Module 1—Pump
<p>Maintenance time out setting Machine will automatically go to standby mode if no panels detected after set time. Use 0 minutes to disable this function.</p> <p><input type="text" value="NNN"/> minutes</p> <p>HMI Config</p>	

1. Heater Configuration



- Hi Hi Alarm Fault: There will a fault for high temperature and cooling will be on, heater will be off.
- Hi Temp Warning: cooling will be on, heater will be off.
- Cooling Setpoint: cooling will be on, heater will be off.
- Setpoint: Set to temperature to the needed one.
- Low Alarm Warning: The heater will be on to heat the tank up to meet the setting.
- Offset: Used to calibrate the temperature.

2. Oscillation 1 Configuration



Step1: Enter X1 and Turn On test1.

Step2: Measure RPM and enter it in Y1.


Step3: Enter X2 and Turn On test2.

Step3: Measure RPM and enter it in Y2.

Done.

3. Oscillation 2 Configuration
See Oscillation 1 Configuration.


4. Pump Configuration



Module 1 Etcher—Pump

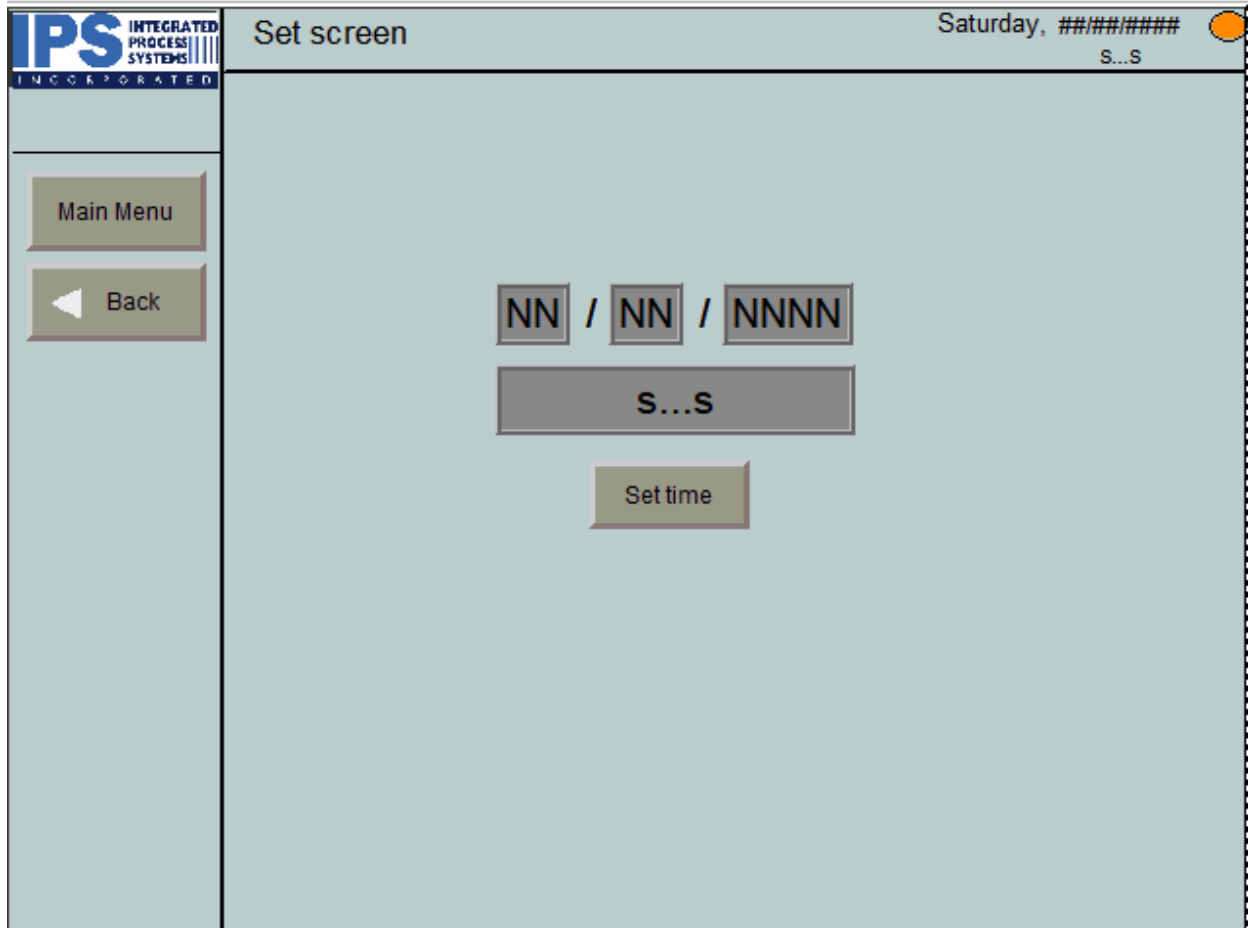
Main Menu

◀ Back

	Pump1 Chamber1 Lower	Pump 2 Chamber1 Upper	Pump 3 Chamber2 Lower	Pump 4 Chamber2 Upper
 PSI Drop Tolerance Across Filter	<div style="background-color: #d3d3d3; padding: 2px 10px;">NN.N</div>	<div style="background-color: #d3d3d3; padding: 2px 10px;">NN.N</div>	<div style="background-color: #d3d3d3; padding: 2px 10px;">NN.N</div>	<div style="background-color: #d3d3d3; padding: 2px 10px;">NN.N</div>
PSI Tolerance From Setting	<div style="background-color: #d3d3d3; padding: 2px 10px;">NN.N</div>	<div style="background-color: #d3d3d3; padding: 2px 10px;">NN.N</div>	<div style="background-color: #d3d3d3; padding: 2px 10px;">NN.N</div>	<div style="background-color: #d3d3d3; padding: 2px 10px;">NN.N</div>

The Tolerance can be set here as the alarm limit.

2.2 Set Time



The control system time can be set here.

3. Information

3.1 Alarm Summary

Active Alarms Summary

Alarm time	Acknowledge time	Message
2:34:36 PM 11/9/2018	2:34:36 PM 11/9/2018	ABCDE FGHIJK LMNOPQ RSTUV WXYZ ABCDE FGHIJ*

Ack Alarm Ack All Alarms

▲ ▼ Close

Color Key

■ Acknowledged

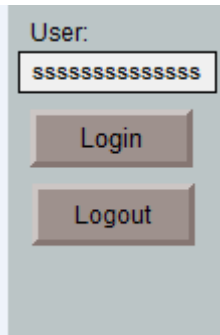
■ Not Acknowledged

Reset alarms

Silence Horn

Here shows the alarm summary.

4. User Information

A screenshot of a user login interface. It features a light blue background. At the top, the text "User:" is displayed. Below it is a text input field containing the string "ssssssssssssss". Underneath the input field are two buttons: "Login" and "Logout", both with a 3D effect and a light blue gradient.

USER (User name and password are the same and all capital):

ADMIN: Able to access all the screens.

ENGINEER: Can access the operation screen, alarm and system configuration.

MAINT: Able to run the parts manually. The manual buttons are not able to be seen by other user.

OPERATOR: Can access the operation screen and alarm.