

User Interface Manual

Small Product Transfer

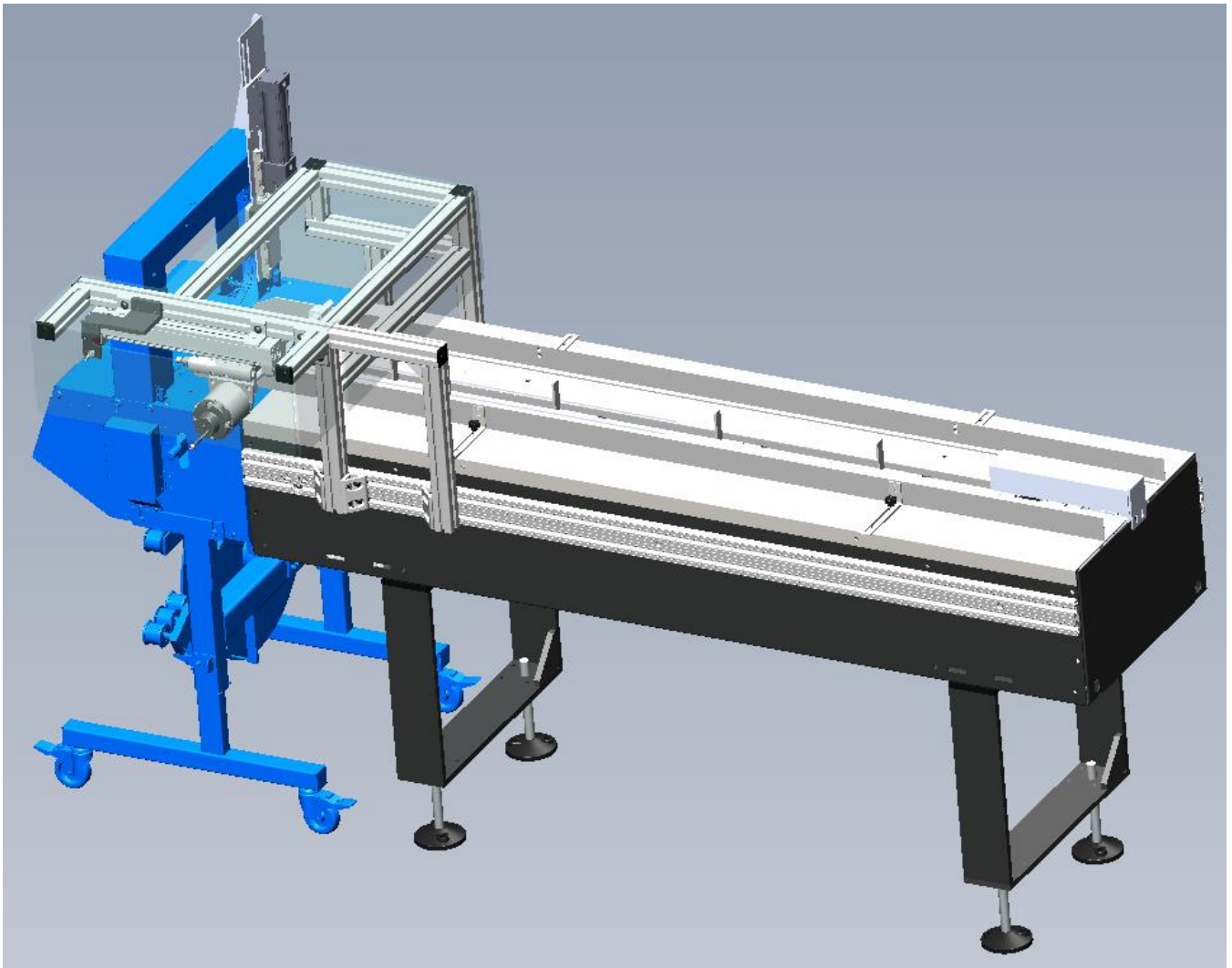


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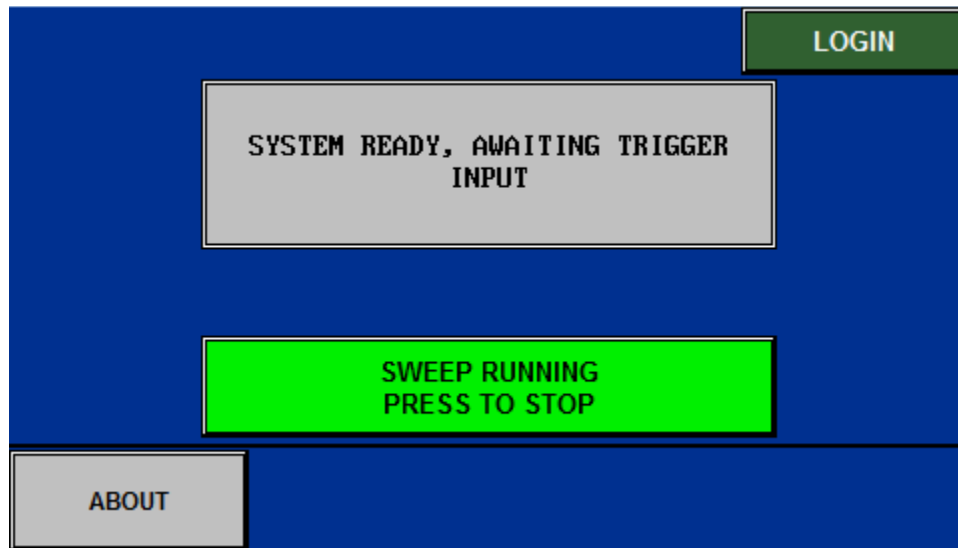
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HOME SCREEN:



The home screen displays the current state of the system and when faulted will display a description of the fault and allow the user to clear the fault and reset the system. The home screen also allows a logged in user to navigate to different settings for the system.

Home Screen Functions

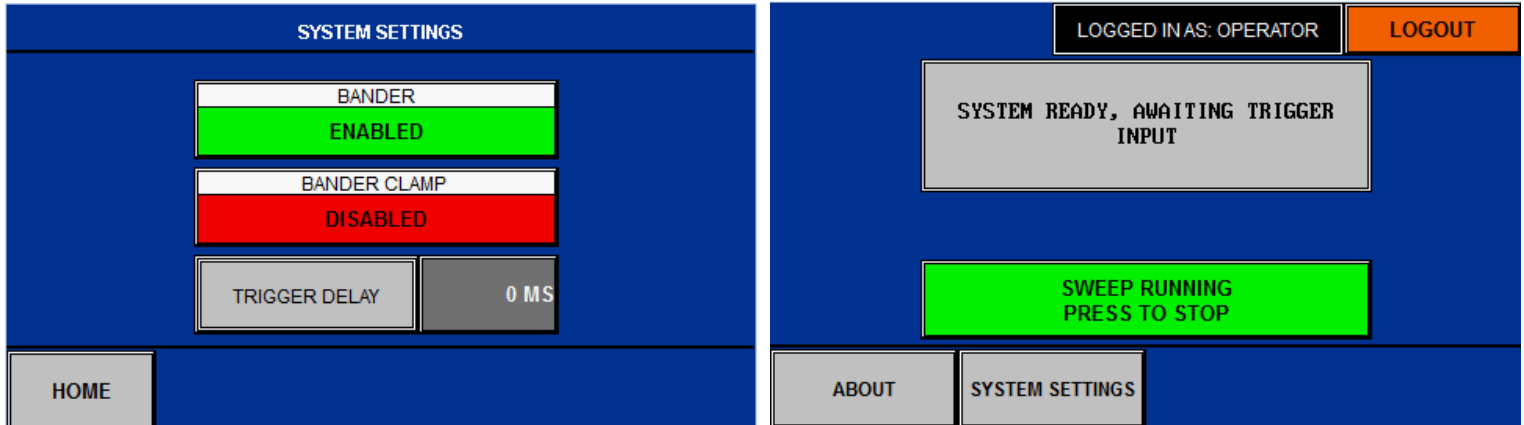
About – Displays equipment model and software version

Sweep Running / Stopped – When the system is ready the system will run when triggered externally, and when the system is running the status box will display that the system is in a busy state.

Login – Brings the user to a login screen where different passwords will grant the user access to different levels of settings.

SETUP:

These screens are made accessible by inputting '777' in the login screen, or by using the Alternate Operator User Password discussed later in the manual.



This screen gives the user access to change the operation of the head to foot portion of the system.

Bander Clamp Enabled/Disabled:

Allows the user to enable or disable the clamp attached to the bander. If the user chooses to not use a bander with this system the clamp should be disabled.

Bander Enabled/Disabled:

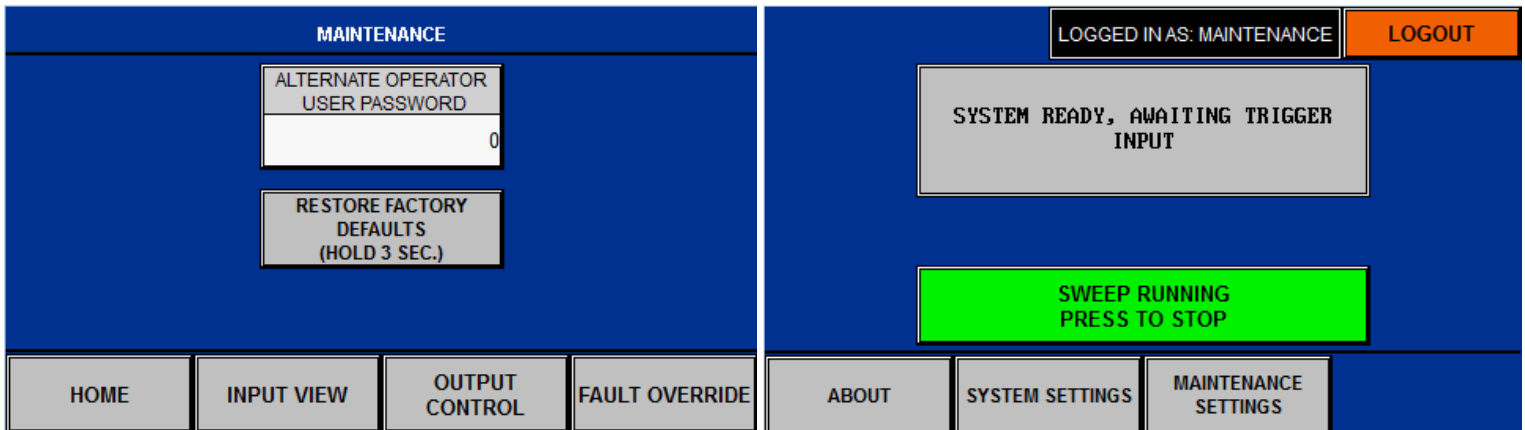
Allows the user to enable or disable the sequence of triggering the bander. If the user chooses to not use a bander with this system the sequence should be disabled.

Trigger Delay:

Allows the user to add a time delay between the trigger signal, and the start of the sweep sequence. This is used for conveyor positioning purposes.

MAINTENANCE:

These screens are made accessible by inputting '7150' in the login screen.



The maintenance screen gives the user access to change the Alternate Tech User Password, view all input signals coming into the system, view and control all outputs from the system, override faults, and restore the system to its factory defaults. This user also has access to the settings provided to the Tech user as well.

Input View:

Allows the user to view the status of all inputs coming into the system.

Output Control:

Allows the user to view the status of all outputs from the system and force them on or off.

Fault Override:

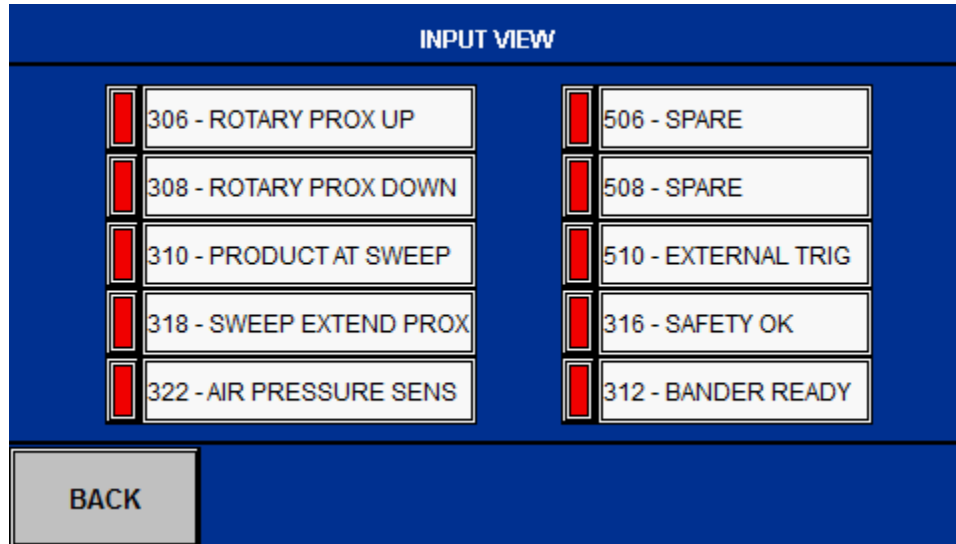
Allows the user to override certain faults preventing the system from running.

Restore Factory Defaults:

Restores all user-changeable variables to their factory settings. The following is a list of all changeable values and their default settings. (Default values are determined with a 40psi regulated air source)

- Low Air Pressure Override: Disabled
- Rotary Timeout Override: Disabled
- Sweep Timeout Override: Disabled
- Trigger Delay: 0 msec.
- Alternate Tech User Password: 1

INPUT VIEW:



The Input View screen displays the status of all input signals coming into the system.

Rotary Prox Up

Signal input when the rotary sweep is in its fully up position.

Rotary Prox Down

Signal input when the head tamper is in its fully down position.

Product at Sweep

Signal input when product is detected and ready to be swept.

Sweep Extend Prox

Signal input when the sweep has reached its fully extended position.

Air Pressure Sens

Signal input telling the system there is an air supply greater than 20 PSI.

External Trig

Signal input trigger from external device.

Safety OK

Signal from the internal safety relay that the E-STOP is not pressed.

Bander Ready

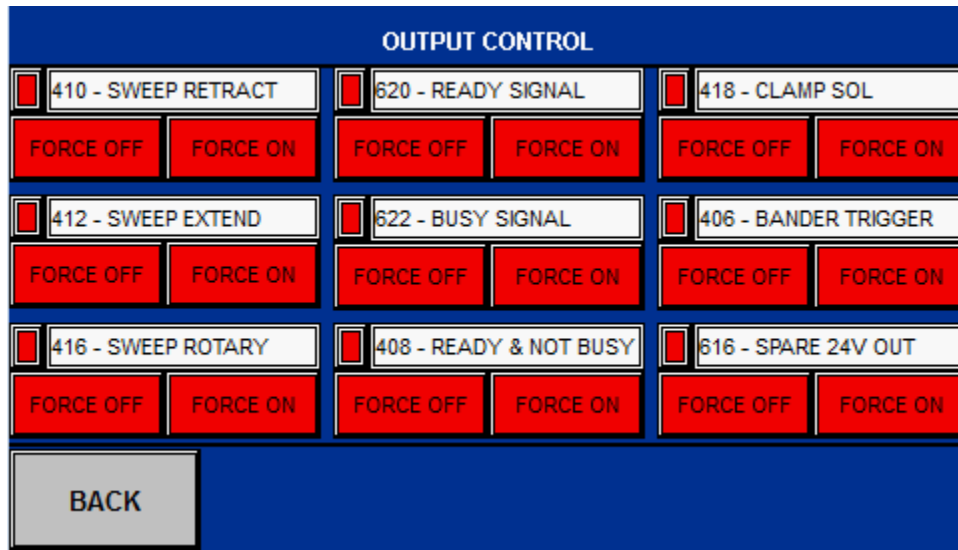
Ready Signal input from the bander.

Spare 506

A spare relay powered input. Coil ratings listed in electrical schematic.

Spare 508

A spare relay powered input. Coil ratings listed in electrical schematic.

OUTPUT CONTROL SCREEN

The output control screen allows the user to view and force on/off individual outputs controlled by the system.

Sweep Retract

Status of the sweep retract valve. On – Sweep retracted, Off – Neutral.

Sweep Extend

Status of the sweep extend valve. On – Sweep extended, Off – Neutral.

Sweep Rotary

Status of the sweep rotary. On – Sweep Down, Off – Sweep Up.

Ready Signal

Signal output that is powered when the system is ready to run (not faulted).

Busy Signal

Signal output that is powered when the system is sequencing.

Ready & Not Busy Signal

Signal output that is powered when the system is ready and not running a sequence.

Clamp Sol

Status of the Clamp Solenoid. On – Clamp Down, Off – Clamp Up.

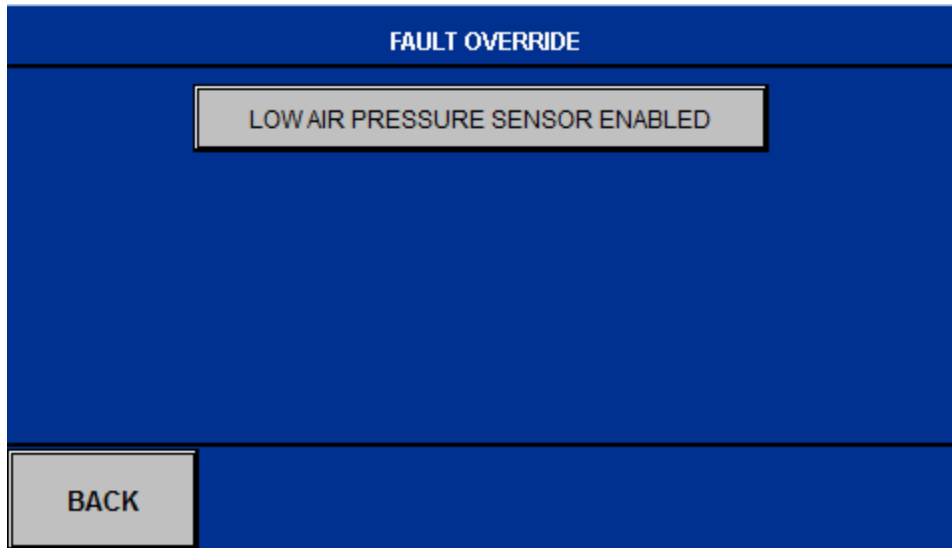
Bander Trigger

Signal output that is triggering the bander.

Spare 24V Out

Spare 24V output signal.

FAULT OVERRIDE SCREEN

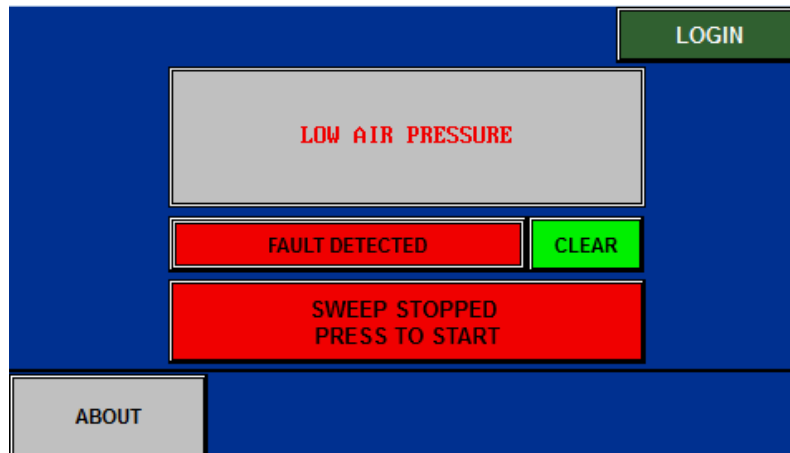


The Fault Override screen allows the user to override faults. This should only be used to aid in debugging any issues with the system

Low Pressure Override

Disabling this fault cancels out the air pressure supply sensor input.

FAULTS:



When the System faults out of a sequence the system will display the fault.

Failed to transfer product

This fault will appear if the photo eye looking at the product pass through the sweep system is still blocked after the sweep action is completed. Check height of sweep assembly above conveyor.

Rotary Timeout Fault

This fault will appear if the rotary timeout counter reaches its set point before fully reaching its intended position.

Sweep Timeout Fault: Sweep could not fully extend

This fault will appear if the sweep timeout counter reaches its set point before fully reaching its intended position.

Bander Sequence Timeout Fault: Failed to Trigger Bander

This fault will appear if the system fails to complete the bander sequence. Reboot System, Check all electrical connections.

Bander Faulted: Check Bander

This fault will appear if the bander sequence is enabled, and the bander is not ready.

E-STOP Pressed

This fault will appear if the E-STOP is pressed.

Low Air Pressure

This fault will appear if the systems air supply sensor reads 20psi or less.

NOTES
