SYSDYNE
Seek-N-Feed
User Manual

version 1.35

Contents

1 Introduction

This manual will describe how to configure and use the Sysdyne Seek-n-Feed material handling system.

2 Configuring the Seek-n-Feed System

2.1 Configuring Overhead Bin Feed Mode

1. Press the **MODE** button until **MODE DISPLAY** reads 1
2. The current mode of operation will be displayed on **LED 1** and the Selected Overhead Bin on **LED 2**, see Table 1

Table 1. Overhead Bin Settings

Autofeed Setting	**LED2 Display**	**OPERATION**
No autofeed	0	wont feed automatically
Low-Low	1	start when bin is low, stop when bin is not low
Low-High	2	start when bin is low, stop when bin is hight
High-High	3	start when bin is not high, stop when bin is high

3. Select the bin that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 2**
4. To change the feed settings use the **UP** and **DOWN** buttons below **LED 1**
5. When the correct settings are displayed press the **SET** button to store the value in system memory

Note:Only the selected bin is configured when the **SET** button is pressed and these steps must be repeated for each bin.

2.2 Configuring Bin Mapping

This setting allows mapping between Ground Bins and Overhead Bins.

1. Press the **MODE** button until **MODE DISPLAY** reads 2
2. **LED 1** is the number of the Ground Bin and **LED 2** is the number of the Overhead Bin
3. Press the **UP** or **DOWN** button under the respective display to change the settings

4. When the correct Ground Bin and Overhead Bin settings are displayed press **SET** to store the value to memory

5. The **MODE DISPLAY** will show the number of ground bins mapped to the specified overhead bin

6. Repeat steps as necessary for other Ground Bins and Overhead Bins

Note: These steps must be completed for each map between Ground Bin and Overhead Bin.

2.3 Configuring Belt Time Out Timers

1. Press the **MODE** button until **MODE DISPLAY** reads 3 for Belt 1, 4 for Belt 2, or 5 for Belt 3

2. The current time out time will be displayed on **LED 1** in seconds and the selected Ground Bin on **LED 2**

3. Select the bin that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 2**

4. To configure the run out time use the **UP** and **DOWN** buttons below **LED1** to change the time out time, this number can be anywhere between 0 and 99

5. When **LED 2** displays the desired time out time press the **SET** button to store in system memory

Note:Only the selected belt is configured when the **SET** button is pressed and these steps must be repeated for each bin.

2.4 Configuring Ground Bin Mode

1. Press the **MODE** button until **MODE DISPLAY** reads 6

2. The selected Ground Bin will be displayed on **LED 1**

3. Select the Ground Bin that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**

4. The current mode of operation will be displayed on **LED 2.** Using **UP** and **DOWN** buttons under **LED 2** to change mode. Mode 0 is normal mode, Mode 1 is risk mode. Risk mode will start to open the Ground Bin before the Turn Head reach the corresponded Overhead Bin.

5. When **LED2** displays the desired mode press the **SET** button to store in system memory

Note:Only the selected Ground Bin is configured when the **SET** button is pressed and these steps must be repeated for each Ground bin.

2.5 Configuring Ground Bin to Belt Mapping

1. Press the **MODE** button until **MODE DISPLAY** reads 20
2. The selected Ground Bin will be displayed on **LED1** and the associated Belt will be displayed on **LED 2**
3. Select the bin that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**
4. Select the belt that the bin is assigned to using the **UP** and **DOWN** buttons under **LED 2**
5. When the displays show the proper association press the **SET** button to store in system memory

Note:Only the selected bin is configured when the **SET** button is pressed and these steps must be repeated for each bin.

2.6 Configuring the Device Numbers

1. Press the **MODE** button until **MODE DISPLAY**shows 30
2. The current device type will be displayed on **LED1**,Ground Bin is type 1, Overhead Bin is type 2, Belt is type 3.
3. To change the setting press the **UP** or **DOWN** buttons under **LED 1**.
4. To change the devices numbers for the selected device type press the **UP** or **DOWN** buttons under **LED 2**.
5. When the correct devices numbers is selected press **SET** to save the setting to system memory

Note:Only the selected device type is configured when the **SET** button is pressed and these steps must be repeated for device type.

2.7 Configuring Belt Time On Timers

1. Press the **MODE** button until **MODE DISPLAY** reads 40
2. The selected Belt will be displayed on **LED1** and timer delay will be displayed on **LED 2** in seconds
3. Select the belt that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 2**
4. To configure the on time use the **UP** and **DOWN** buttons below **LED 1** to change the time out time, this number can be anywhere between 0 and 99
5. When **LED2** displays the desired time out time press the **SET** button to store in system memory

Note:Only the selected belt is con gured when the **SET** button is pressed and these steps must be repeated for each bin.

3 Configuring the I/O Settings of the Seek-N-Feed System

3.1 Configuring Ground Bin Outputs

1. Press the **MODE** button until **MODE DISPLAY** reads 21
2. The selected Ground Bin will be displayed on **LED 1** and the associated Output Port will be displayed on **LED 2**
3. Select the bin that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**
4. Select the output port that the bin is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48
5. When the displays show the proper association press the **SET** button to store in system memory

3.2 Configuring Turn Head Outputs

1. Press the **MODE** button until **MODE DISPLAY** reads 22
2. The selected Turn Head will be displayed on **LED 1** and the associated Output Port will be displayed on **LED 2**
3. Select the head that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**
4. Select the output port that the head is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48
5. When the displays show the proper association press the **SET** button to store in system memory

3.3 Configuring Belt Outputs

1. Press the **MODE** button until **MODE DISPLAY** reads 23
2. The selected Belt will be displayed on **LED1** and the associated Output Port will be displayed on **LED 2**
3. Select the belt that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**
4. Select the output port that the belt is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48
5. When the displays show the proper association press the **SET** button to store in system memory

3.4 Configuring Vibrator Output

1. Press the **MODE** button until **MODE DISPLAY** reads 24
2. The selected Vibrator will be displayed on **LED 1** and the associated Output Port will be displayed on **LED 2**

3. Select the vibrator that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**

4. Select the output port that the vibrator is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48

5. When the displays show the proper association press the **SET** button to store in system memory

3.5 Configuring Overhead Bin Low Level Sensor Input

1. Press the **MODE** button until **MODE DISPLAY** reads 25

2. The selected Overhead Bin will be displayed on **LED 1** and the associated Input Port will be displayed on **LED 2**

3. Select the bin that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**

4. Select the input port that the bin is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48

5. When the displays show the proper association press the **SET** button to store in system memory

3.6 Configuring Overhead Bin High Level Sensor Input

1. Press the **MODE** button until **MODE DISPLAY** reads 26

2. The selected Overhead Bin will be displayed on **LED 1** and the associated Input Port will be displayed on **LED 2**

3. Select the vibrator that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**

4. Select the input port that the sensor is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48

5. When the displays show the proper association press the **SET** button to store in system memory

3.7 Configuring Overhead Bin Emergency High Level Sensor Input

1. Press the **MODE** button until **MODE DISPLAY** reads 27

2. The selected Overhead Bin will be displayed on **LED 1** and the associated Input Port will be displayed on **LED 2**

3. Select the vibrator that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**

4. Select the input port that the sensor is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48

5. When the displays show the proper association press the **SET** button to store in system memory

3.8 Configuring Turn Head L Sensor Input

1. Press the **MODE** button until **MODE DISPLAY** reads 28
2. The selected Overhead Bin will be displayed on **LED 1** and the associated Input Port will be displayed on **LED 2**
3. Select the vibrator that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**
4. Select the input port that the sensor is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48
5. When the displays show the proper association press the **SET** button to store in system memory

3.9 Configuring Turn Head Left Right Sensor Input

1. Press the **MODE** button until **MODE DISPLAY** reads 29
2. The selected Turn Head will be displayed on **LED1** and the associated Input Port will be displayed on **LED 2**
3. Select the vibrator that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**
4. Select the input port that the sensor is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48
5. When the displays show the proper association press the **SET** button to store in system memory

3.10 Configuring Belt Status Input

1. Press the **MODE** button until **MODE DISPLAY** reads 28
2. The selected Belt ID will be displayed on **LED 1** and the associated Input Port will be displayed on **LED 2**
3. Select the vibrator that the settings are to be changed by using the **UP** and **DOWN** buttons under **LED 1**
4. Select the input port that the sensor is assigned to using the **UP** and **DOWN** buttons under **LED 2**, between 1-48
5. When the displays show the proper association press the **SET** button to store in system memory

4 Operating the Seek-N-Feed System

This section will cover the functionality of the front panel buttons.

4.1 Auto/Manual Mode

Switches between automatic and manual control of the system. When the **LED** within the button is lit the system will function automatically, otherwise it will be under manual control.

4.2 Half Auto Mode

Half **Auto Mode** allows the controller to select the overhead bin that will be lled, all other functions will be automatic. The bin is selected by pushing the **MODE** button until the **MODE DISPLAY** reads 00. The bin is then selected by pressing the **UP** and **DOWN** buttons under LED 1. The system is then started by pressing START.
NOTE:**Auto/Manual Mode** and **Half Auto** Mode can not both be enabled. If both are enabled automatic mode will take precedence.

4.3 Hand Control Mode

This mode allows full manual control of the system. Note:This mode has priority over both **Auto/Manual Mode** and **Half Auto Mode** and will change the mode of operation to **Hand Control Mode**.

4.4 Open Button

This button is used to open the selected ground bin. To select a ground bin press the **MODE** button until the **MODE DISPLAY** reads 00. Then use the **UP** and **DOWN** buttons under the **LED 2** display to change the bin number.

4.5 Turn Head

The Turn Head button allows manual operation of the turn head.

4.6 Belt Control Buttons

The **BELT 1**, **BELT 2**, and **BELT 3** buttons allow manual control of the corresponding belt.

4.7 Skip Button

The **SKIP** button allows the user to stop the current feed and start the next feed regardless of the state of the overhead bins.