

*Superior* PAPER HANDLING SOLUTIONS

**SMARTCOUNT**  
*BATCH COUNT CONTROLLER*

Models F-1 and D-1  
User Guide & Technical Information

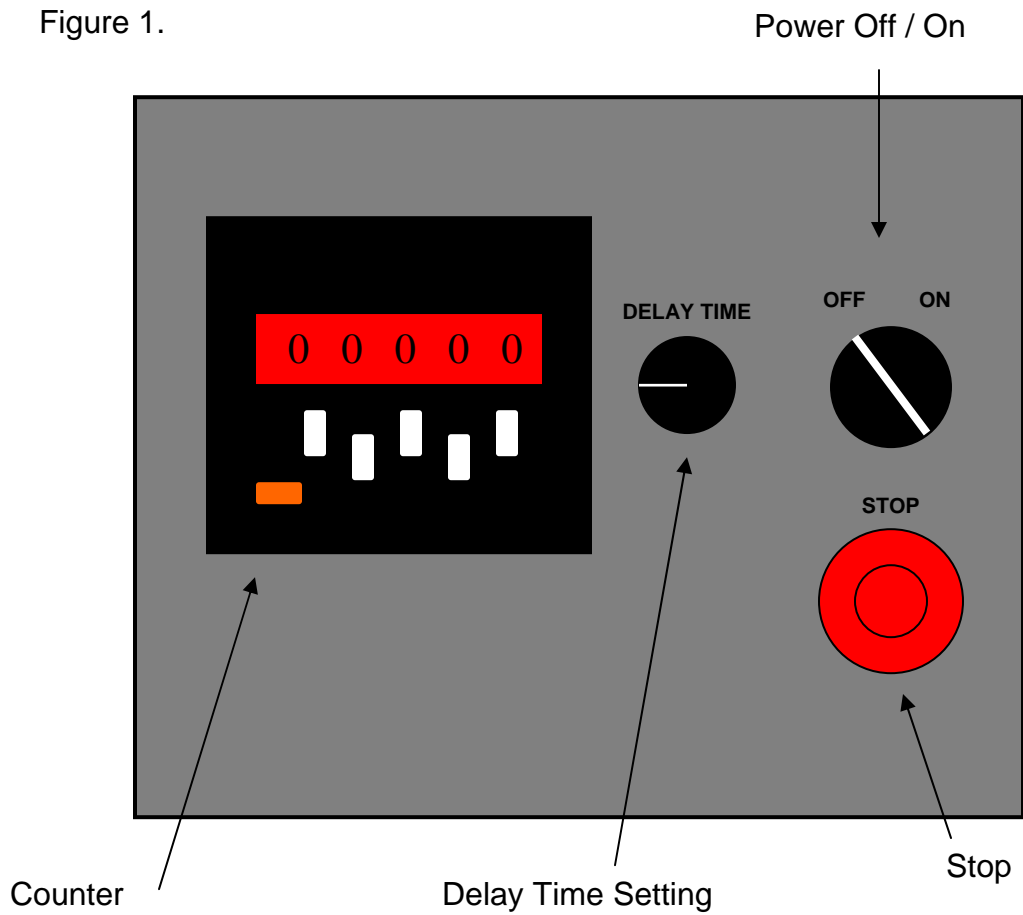
## Table of Contents

1. Overview
2. Settings
3. Operation
4. Wiring Diagram

# 1. Overview

## Operator Interface F-1 and D-1 Models

Figure 1.

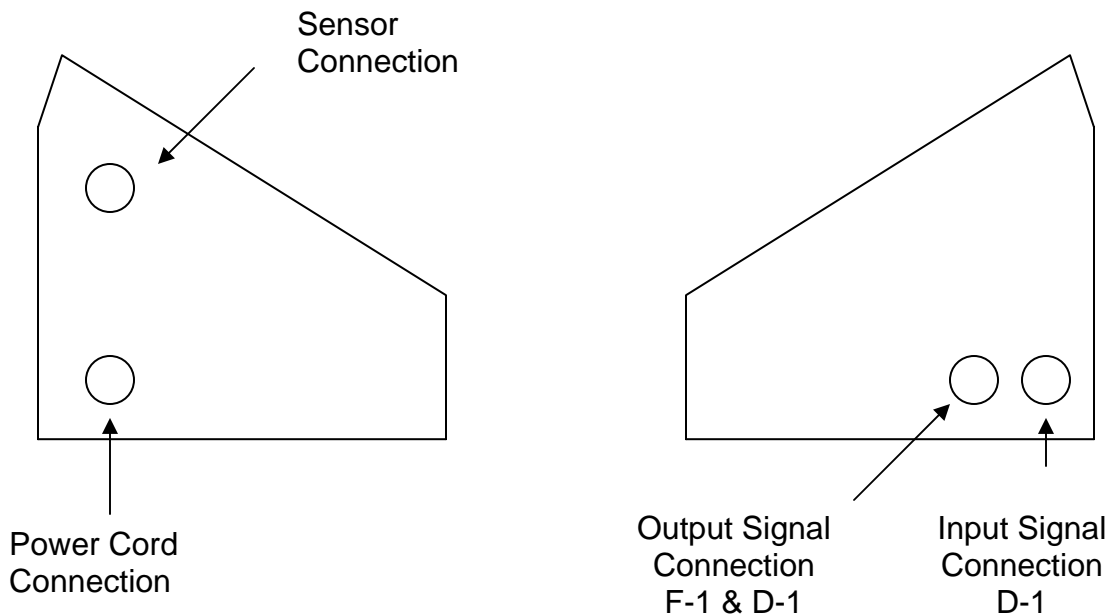


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Table 1- Figure 1

Feature	Description
Counter	The counter provides the interface to select the desired batch size per job. Counts can range from 00001 piece up to 99999 pieces.
Delay Time	F-1 - This setting controls the length of time the output signal is energized (0-15 seconds) D-1 – This setting controls the length of time before the output signal is sent to the Dropper (0-15 seconds)
Power On / Off	Main power on / off interface
Stop	This button will illuminate when pressed and will remove power to the counter and sensor. Simply pull up to disengage the stop.

Figure 2.



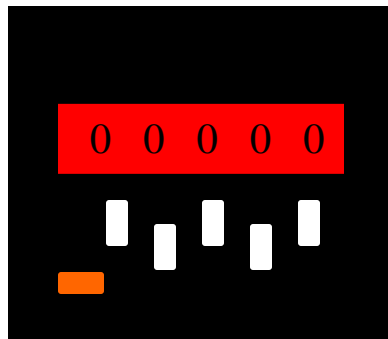
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Table 2- Figure 2

Feature	Description
Sensor Connection	The sensor connection is the interface for the sensor that is used to count the material.
Power Connection	This connection provides 115vac power to the controller.
Output Signal Connection	This interface is used to signal auxiliary equipment including feeders, droppers, and more
Input Signal Connection	This interface is used to receive a signal from the BatchDrop accumulator.

## 2. Settings

### Counter



The counter is equipped to count from 1 up to 99,999 pieces. To change the count, press any of the digit buttons. All digits will illuminate and display current setting. Pressing the digit buttons will increment the ones, tens, hundreds, thousands, and ten thousands digits. If you do not press any of the digit buttons within 3 seconds, the counter will return to the previous screen with the original count setting. Once you have set the new count, press and hold the red set / reset button for approximately 3 seconds. The display will then reset back to zero.

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## Delay Time

DELAY TIME



F-1 Model – The Delay time setting is used to control the length of the output signal. This signal is dry contact, normally closed when activated. This signal is typically used to inhibit the drive of the device feeding the product that is being counted. The length of time can be set from 0 – 15 seconds.

D-1 Model – The Delay time setting is used to delay the output signal. This signal is dry contact, normally closed when activated. The signal is typically used to “trigger” the accumulating device.

## 3. Operation

1. With **all** connections made, power on the unit by moving the Off – On switch to the On position. If the Stop button is illuminated, pull up to disengage.
2. Set the batch size on the counter to the desired count. Press any of the white digit buttons and then press the buttons to the desired count. Press and hold the red set / reset button to accept the change.
3. Set the Delay time about a ¼ turn up from zero (zero is fully counter clockwise on the dial). This will be used as the starting point. For maximum performance of the system, you will need to reset this to either decrease or increase the output signal (F-1) increase or decrease the delay of the output signal (D-1).
4. Position the counting sensor inline with the product flow. Make sure that the sensor is not sensing any background. The indicator lamp on the sensor should only come on when product passes by it. The location of

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- the sensor should be relatively close to the feeding device to ensure that the first piece of the next batch is not dispensed onto the conveyor.
5. Start up the system per manufacturer's directions.
  6. As product is dispensed to the counting sensor, the counter display will increment until it reaches the set count. For the F-1 Model, as soon as the count is reached, the output signal will energize. This signal will stay energized until the Delay time is reached. When the Delay time is reached, the signal will de-energize and the counter will automatically reset to zero. For the D-1 model, as soon as the count is reached, the delay timer will energize for the time period as set on the Delay time setting. Once the timer reaches that time, the output signal will be energized causing the dropper to open its gates and drop the accumulated stack. As soon as the dropper returns to the home position, it will send a signal back to reset the counter.

NOTES:

## 4. Wiring Diagram

See Other