FAIRBANKS® SCALES



Flexibility and accuracy for filling and batching applications.

PREDICTIVE CUTOFF APPLICATION FOR FB4000 INSTRUMENTS

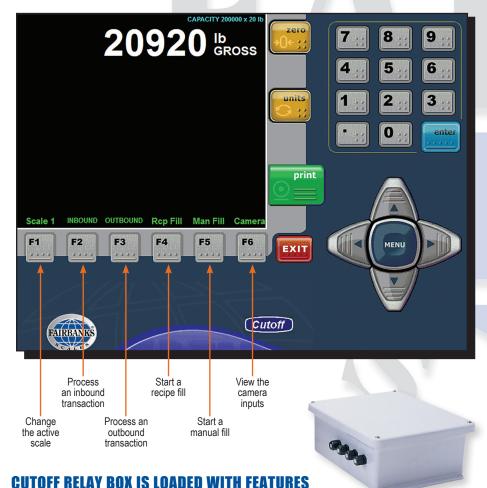
ACHIEVE GREATER ACCURACY WITH PREDICTIVE CUTOFF FLOW MONITORING

he Predictive Cutoff Application for the FB4000 is a flexible and robust filling, batching, and weighing solution. Capable of controlling the flow of up to a dozen different materials and storing recipes with up to four materials each, the Predictive Cutoff Application will allow processes to flow seamlessly between operations.

Typical filling applications turn off the flow of materials when a specified setpoint weight has been reached. With Predictive Cutoff, the FB4000 is constantly monitoring the rate of weight change on the

scale and predicts the value between displayed (on-screen) updates. If the setpoint will be reached between updates, the FB4000 does not wait to stop the flow. This results in more accurate filling weights, saving time and expense, whether filling a single material or batching precise combinations. Built on a Windows® operating system, information from the FB4000 is easy to integrate into other operational reporting systems and the instrument can connect to any Windows® compatible USB or network printer.

Combined In/Out Filling modes for mixed use scales



With up to 16 I/O ports, the Fairbanks Relay Box accessory for Predictive Cutoff has the flexibility to run most automated filling apps.

- Use the input modules to add interlocks.
- Add a remote start button.

- Control up to 12 materials at a single rate or six materials with two speeds.
- Connect to the Fairbanks FB4000 Instrument through an existing Ethernet TCP/IP network or directly with patch cables and an Ethernet switch.

SCREEN SAMPLES

Material Entry screen

Each material can be assigned up to two relays, for a fast and dribble feed.



Recipe Entry screen

Recipes can contain up to four materials or drafts. Save as many recipes as you need.



Interlock Entry screen

Use the input module to add safety interlocks. such as remote start and emergency stop.

| | CUTOF | F RECIPES |
|---|-------------------|-----------------|
| ı | | |
| ı | SNAP I/O Module | Module 0 ▼ |
| ı | Interlock #1 | Channel 0 |
| | Interlock #2 | None • |
| 1 | Interlock #3 | None • |
| ı | Interlock #4 | None - |
| ı | Remote Start | Channel 3 |
| ı | | |
| ı | Alarm Output Modu | lle 1 Channel 3 |
| | | |

FILLING PROCESSES GRAPHICALLY DISPLAYED FOR OPERATOR

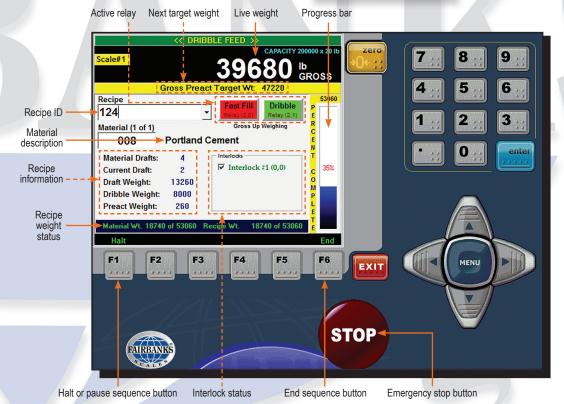
The FB4000 filling screen contains all the information users need to monitor the status of the current filling operation. In addition to live weight, the recipe and material names are displayed along with the weight information for the recipe. A progress bar provides a visual guide to the status of the operation. The status of all Interlocks and the active relays

are displayed so that there are no surprises to the operator and, in case of emergency, a prominent on-screen E-stop button is displayed.









FB4000 SERIES INSTRUMENT ADVANTAGES

- Unsurpassed data collection capabilities
 Unsurpassed data storage capabilities
 Multiple communication options
- Touch screen operation Ethernet connectivity Email functions IP Camera interface Built-in error reporting

Predictive Cutoff Application is ideal for controlling a variety of industrial filling operations



Grain loading truck or rail cars



Cement mixing/filling



Asphalt mixing/filling



Food & beverage batching processes



Aggregate loading/hauling



Tank or hopper filling

PREDICTIVE CUTOFF **TOP FEATURES**

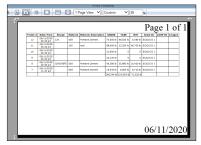
- · Recipe storage for easy management.
- Ethernet TCP/IP relay box interface.
- Up to 16 configurable I/Os.
- · Error notifications.
- Customizable reports.
- · Safety interlocks.
- Formattable tickets.



Predictive Cutoff simplifies filling operations.

REPORTING OPTIONS

The Predictive Cutoff Application has the ability to print, export or email configurable reports that show a variety of weighment information.



Printed Report Format Sample

| | | | | Report Daily Rep | ort | | | | - 12 |
|----------------------------|---|----------|------------|-----------------------------|-----------|------------|-----------|-----------------|------|
| Print Previow Expert Email | | | | | | | | | |
| Selection Cr | port Created taria ge: 06/11/2020 | | 3:43:61 PM | | | | | 5 tickets found | 0 |
| Ticket # | Date/Time | Recipe | Material | Material Description | GROSS | TARE | NET | Scale ID | LOO |
| 12 | 05/11/2020 03:43 pm | 124 | 008 | Portland Cement | 73,500 lb | 68,020 lb | 5,480 lb | SCALE ID 1 | |
| 11 | 06/11/2020 03:42 pm | | 100 | rock | 68,900 lb | 22,200 lb | 46,700 lb | SCALE ID 1 | |
| 10 | 05/11/2020 02:32 pm | | | | 21,900 lb | 0 | 0 | SCALE ID 1 | |
| 9 | 05/11/2020 02:32 pm | | | | 22,120 lb | 0 | 0 | SCALE ID 1 | |
| 8 | 06/11/2020 02:30 pm | CONCRETE | 008 | Portland Cement | 46,380 lb | 35,980 lb | 10,400 lb | SCALE ID 1 | |
| 7 | 05/11/2020 11:24 am | | 008 | Portland Cement | 15,540 lb | 6,800 lb | 8,740 lb | SCALE ID 1 | |
| | | | | | | 133,000 lb | 71.320 b | | |

On-screen Report Format Sample

PREDICTIVE CUTOFF

APPLICATION FOR FB4000 INSTRUMENTS

Weighing Solutions for the World Since 1830

Fairbanks.com

PREDICTIVE CUTOFF SPECIFICATIONS

| Ticket formattingCustomizable | |
|--|----|
| Reports Six unique reports, fully configurable | е |
| Error reporting Automatic alerts sent to multiple | |
| email accounts during an error ever | nt |
| Automated images During the weighing process | |
| Number of materials Up to 12 | |
| Materials per recipe Up to 4 | |
| Number of drafts Up to 4 in single material recipes, | |
| 1 with multiple materials recipes | |
| Accessories Relay box | |

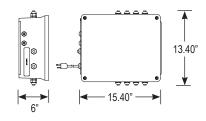
RELAY BOX SPECIFICATIONS

| I/O | .4 digital inputs standard, |
|--------------------|--|
| | up to 12 additional inputs and outputs |
| Outputs | Dry-contact or digital |
| Interface | Ethernet TCP/IP |
| Power requirements | 93-130 VAC; 47-63 Hz |
| Dimensions | 15.4" x 13.4" x 6.0" |

FB4000 SERIES INSTRUMENT DIMENSIONS



CUTOFF RELAY BOX DIMENSIONS



INSTRUMENT SPECIFICATIONS

| Model | FB4000 Series Instrument with Predictive Cutoff Application |
|------------------------------|--|
| Display | |
| Memory | |
| Processor | • |
| Storage | |
| Enclosure | Stainless steel, powder coated, NEMA 12 |
| Device platform | Windows® 8.1 embedded |
| Outputs | 4 USB 2.0 ports 2 RS232 Serial ports 1 RS232/485 selectable port 1 RJ45 port for network connection 1 HDMI port 10/100/1000 Mbps Ethernet controller |
| Power requirements | 100 to 130 VAC or 200 to 260 VAC; 50/60 Hz ± -2 Hz |
| Touch Screen interface | Standard |
| Load cell interface options | Analog and/or Intalogix® |
| Clock | Real time clock, day of the week, 12-hour AM/PM, date month/day/year |
| Display resolution | 10,000 divisions commercial 50,000 divisions for non-commercial |
| Capacity | Programmable to 999,999 |
| Displayed units | 7 primary and 7 secondary |
| Humidity | 0 to 100% |
| Accuracy | Class III/IIIL |
| Number of weighing platforms | Up to 8, depending on the scale interface(s) used |
| Approvals | NTEP CC# 15-064 MC# AM-5997 |
| | |

Your Fairbanks Scales Authorized Representative is:

Call toll-free for the representative nearest you:

(800) 451-4107

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