



## 4088 Controller with FlexBus Lite

# The world's most intuitive blender controller: next generation

The Maguire 4088 controller has an option of a removable touchscreen interface with embedded conveying software to control loading of multiple materials into a blender.



### Faster software execution time

We've increased the performance of our controller by 650%. Compared to previous control versions, our 4088 controller uses 32-Bit data rather than 16-Bit and can run at 120 MHz versus 16 MHz speed.

### Much larger memory space

The 4088 controller has 8 times the memory of the previous generation controller, with 512k internal flash plus 8meg on board external flash, 96k internal Ram plus 32meg on board external RAM. The increased memory makes possible more storage for data logs and the ability to handle larger communication buffers.

### Regular Maguire thumbwheel control or optional touchscreen

A keypad / digital thumbwheel interface comes as standard, or operators can choose our new touchscreen interface that is removable for remote operation. This touchscreen interface features graphical display, is available in multiple languages and comes with readily recognizable icons for every blender module and those of a loading system.



### Higher load cell resolution

The 4088 controller operates at 45 times the resolution of the load cells used to weigh batch ingredients than previous control versions, providing higher resolution and faster readings.

### Integrated loading control

Our 4088 touchscreen controller is integrated with FlexBus Lite; conveying software is built-in for loading multiple materials into a blender and metering the combined materials into a processing machines.

### Mini central system

FlexBus Lite can control 1 vacuum pump and up to 9 receivers for materials to a blender and then feeding local machines.

### FlexBus Lite

FlexBus Lite is complete with central system features such as line cleaning time, pump allocation, proportional valve control and load prioritization.



## Connected manufacturing

We've connected all parts of the production process with our 4088 controller through an Industry 4.0 setting. This brings connectivity, including data analysis, to the whole production process bringing intelligent factory automation for improved efficiency and reduced costs.

## Greater data processing capability

The vastly enhanced operation of the new 4088 controller has increased the volume, speed, and reliability of data transfer, making it possible to integrate Maguire blenders with today's most advanced technologies.

## 5-year warranty

The Maguire 4088 controller comes with a 5-year warranty. Upgrades to production software for the controller are free for the life of the blender.

## Fully retrofittable

Our 4088 controller can easily be retrofitted to the vast majority of blenders installed already, giving you the latest controls and features.



## FlexBus Lite

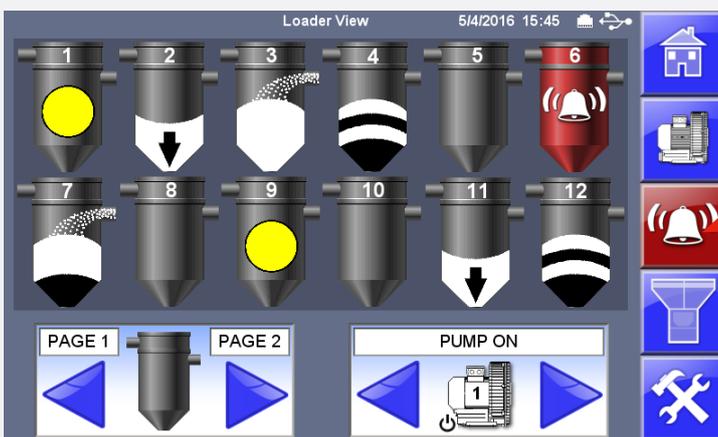
### Control a range of pumps and receivers

As standard with our touchscreen controller comes integrated loading with FlexBus Lite control. Operators can manage up to 9 receivers and 1 pump from the respective setup screens.

### Designed for easy operation

Our 4088 touchscreen controller uses easy to understand icons to navigate the receiver and pump menus as well as all blender modules.

## FlexBus Lite Homescreen



### Alarm history

Displays red when there is an alarm notification.

In Live status panel the receivers will display their current status, for example;

**1** DEMAND FOR MATERIAL

**2** MATERIAL DISCHARGING

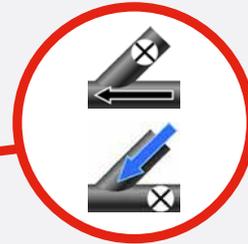
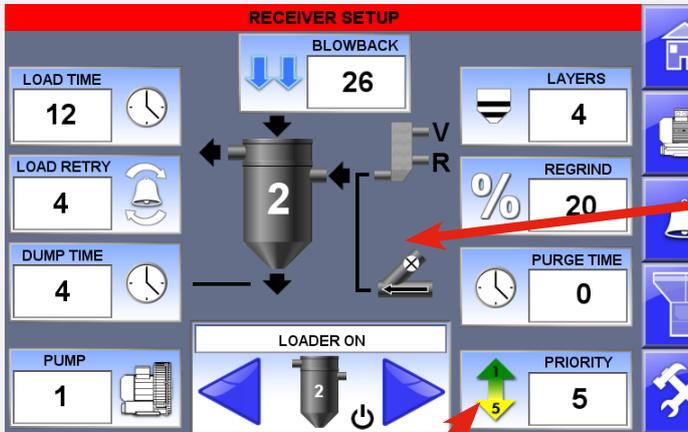
**3** VIRGIN MATERIAL FILLING RECEIVER

**4** REGRIND LAYERING

**5** RECEIVER IS ONLINE AND IDLE

**6** RECEIVER IS ALARMING

## FlexBus Lite Receiver Setup Screen



### Purge

This symbol represents the purge value. When purging, the symbol will show a blue arrow.

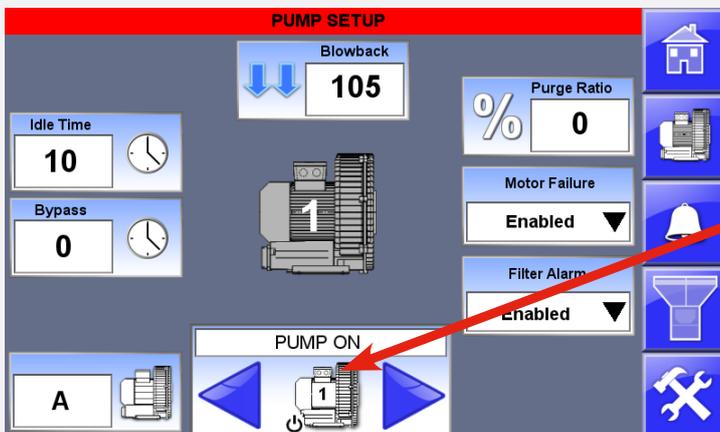


### Priority

Sets the order of importance of receivers. Setting a receiver to level 1 sets the highest priority, while setting to level 5 sets to the lowest priority. Higher priority receivers receive material first while lower priority receivers get material later.



## FlexBus Lite Pump Setup Screen



### Turning on and off

Pressing the pump symbol toggles the pump OFF and ON. Message will display PUMP OFF.

## GHR with FlexBus

Our GHR-10 and GHR-20 Glass-Vu vacuum receivers integrate with our FlexBus Lite controls for effective conveying. Alternatively, FlexBus Lite can readily integrate with existing third party loaders and pumps, or new third party pumps and receivers, simply by adding FlexBus receiver cards and pump cards.





## Specification:

### Maguire FlexBus

FB-OLS1	FlexBus Touchscreen System Controller - 110v - up to 5 Vacuum Groups and 48 receivers per pump
FB-OLS2	FlexBus System Controller - 240v - up to 5 Vacuum Groups and 48 receivers per pump

### Maguire MLS FlexBus

FB-MLS1	FlexBus Loading Controller for Maguire MLS System including pump Central Control (110 VAC)
FB-MLS2	FlexBus Loading Controller for Maguire MLS System including pump Central Control (230 VAC)

### Maguire Receivers

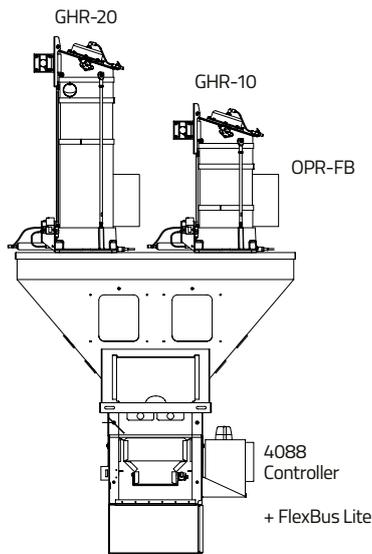
GHR-10	GHR-10 Glass-Vu Vacuum Receivers (10lb / 4.5kg capacity)
GHR-20	GHR-20 Glass-Vu Vacuum Receivers (20lb / 9kg capacity)
OPR-FB	FlexBus Receiver Controller fitted to Maguire Receiver

### Controls for Third Party Receivers or Pumps

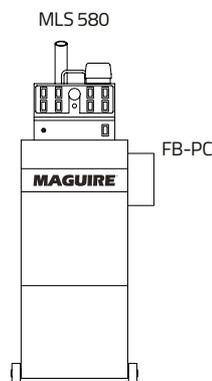
FB-PC	FlexBus Vacuum Pump Control Module - Third Party Pump Module (24 VDC)
FB-RC-O	FlexBus Receiver Control Module - Third Party Receiver Module (24 VDC)

\*Receiver cards are all 24vdc

## Maguire Gravimetric Blender with Maguire Receivers and Loaders

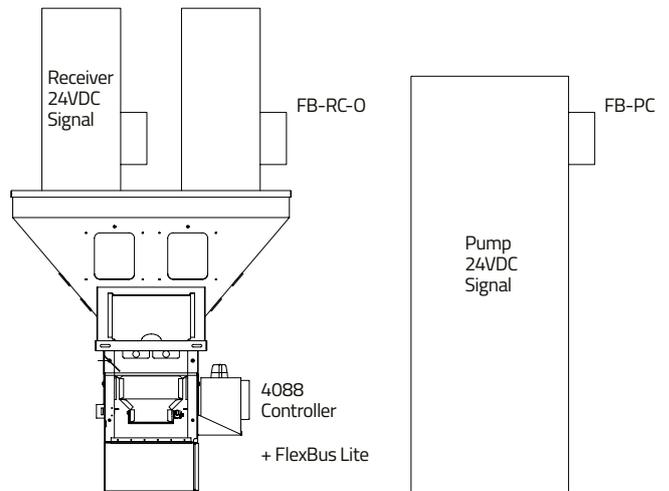


**Maguire GHR-10 and GHR-20 receivers with Maguire FlexBus Receiver Controller**



**Maguire MLS 580 pump with Maguire FlexBus Vacuum Pump Module**

## Maguire WSB Blender with Third Party Receivers and Pump



**Customer's existing or new third party receiver options**

**Customer's existing or new third party pump options**

Maguire reserves the right to cancel product or change product, product specifications and data without notice to improve reliability, function, design or otherwise.

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