

Create Configuration



Enter Settings



Fan Frame Feed Gate Calibration

Fan Frame Feed Gate Calibration
calibrate fan frame feed gate

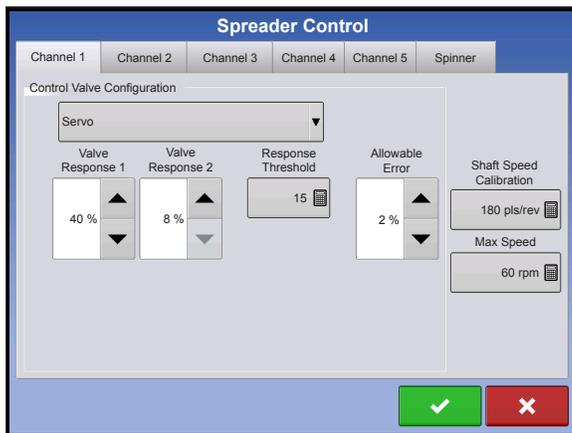
Controller Settings



There is a tab for every channel of control with Control Valve Configurations and related settings.

Note: Five channels of control are only available with 5 channel Spreader Control Module.

Servo Valve



Valve Response 1

fast speed of valve, decrease to slow response time, default = 40%

Valve Response 2

slow speed of valve, decrease to slow response time, default = 8%

Response Threshold

point where system switches between using Valve Response 1 and Valve Response 2, increase to slow response time, default = 15

Allowable Error

error allowed before making rate control adjustments

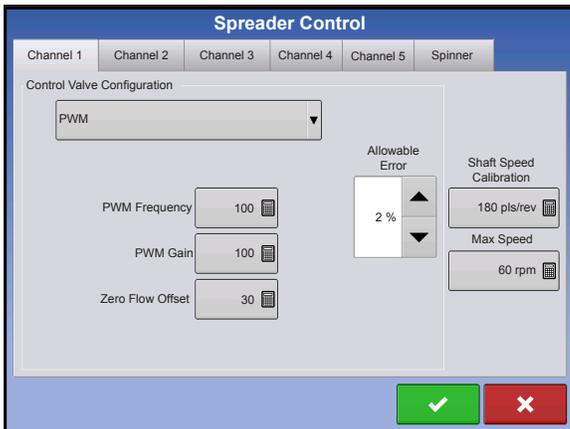
Shaft Speed Calibration

pulses/revolution of metering shaft

Max Speed

maximum allowable RPM of product conveyoyr

PWM Valve



PWM Frequency

frequency valve is pulsed at, settings come from manufacturer, typical range: 100-125 Hz

PWM Gain

decrease to slow response time

Zero Flow Offset

duty cycle used to start moving conveyer, if setting is too high conveyer will not turn off, default = 30

Allowable Error

error allowed before making rate control adjustments

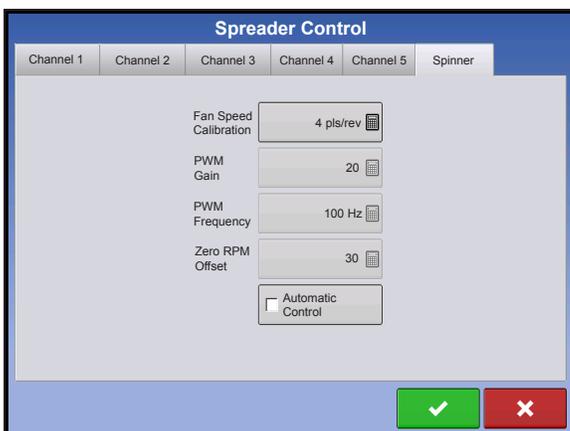
Shaft Speed Calibration

pulses/revolution of metering shaft

Max Speed

maximum RPM of product conveyer

Spinner Tab



Fan Speed Calibration

pulses/revolution of spinner

PWM Gain

decrease to slow response time

PWM Frequency

frequency valve is pulsed at, settings come from valve manufacturer, typical range = 100-125 Hz

Zero RPM Offset

duty cycle used to start rotating the spinner, if setting is too high spinner will not stop rotating, default = 30

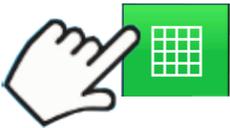
Automatic Control

select to control the spinner speed

To start the Field Operation Wizard and load a configuration:

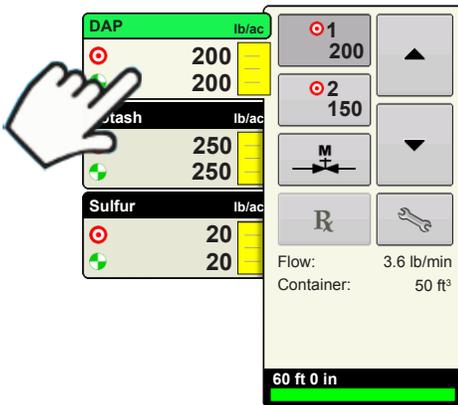


To view run screen:



Product Control Toolbox

To change values shown on Product Tab and in Product Control Toolbox go to the next page where the Rate Control Settings screen is explained.



Target Rate

the desired amount of product to apply



Actual Rate

actual rate of product being applied as determined by the flow sensor



Product in Bin



200



150

Target Rate #1 & #2

preset application rates that allow a quick change between rates



Manual Valve Control

allows operator manual control of valve



Prescription

allows rates to be determined by a loaded prescription



Up and Down Arrows

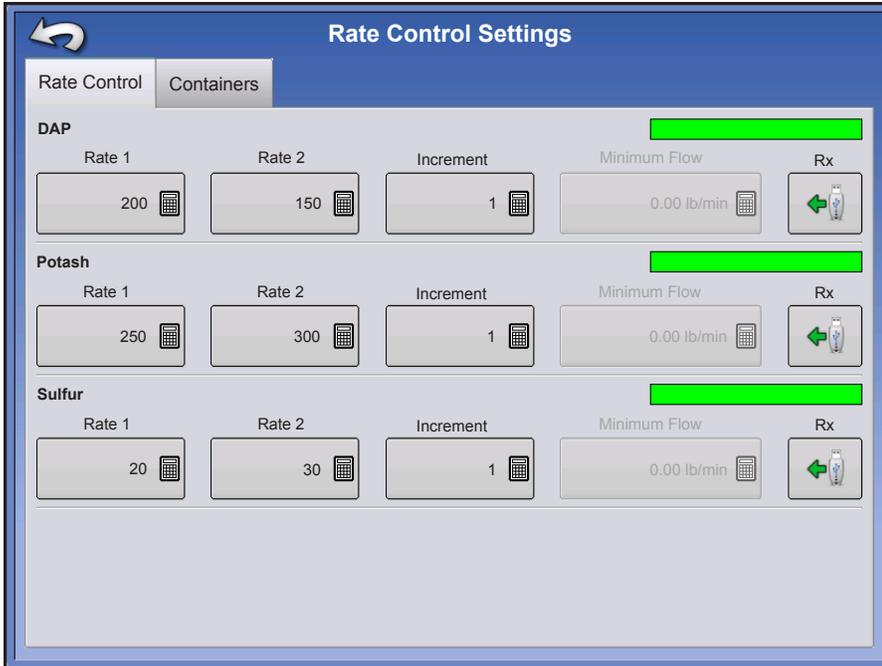
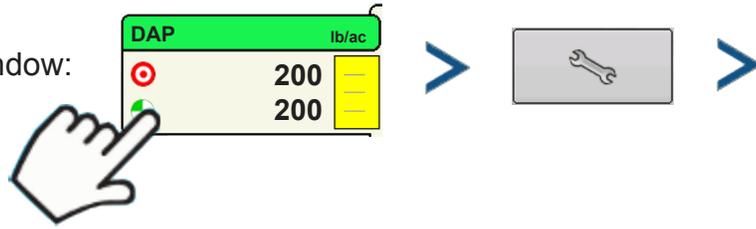
allow rates to be adjusted manually



Settings button

opens Rate Control Settings screen (explained on next page)

To access the Rate Control Settings window:



Rate 1 and Rate 2
allows operator to set desired target rates

Increment
values used when using up and down arrows in the Product Control Toolbox

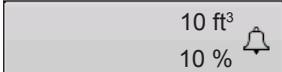
Rx
press to load a map-based prescription file

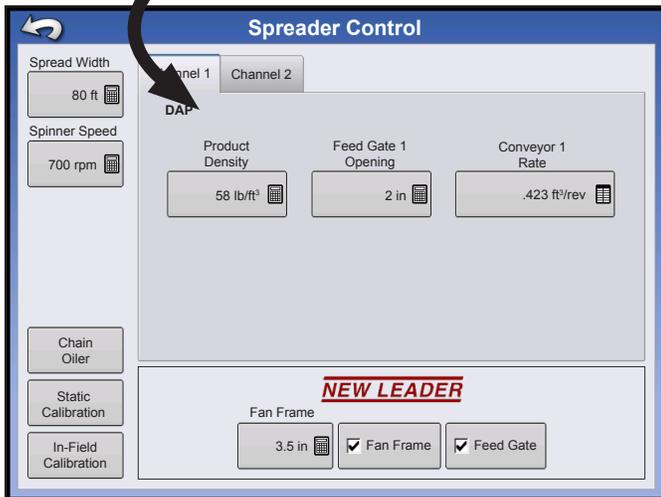
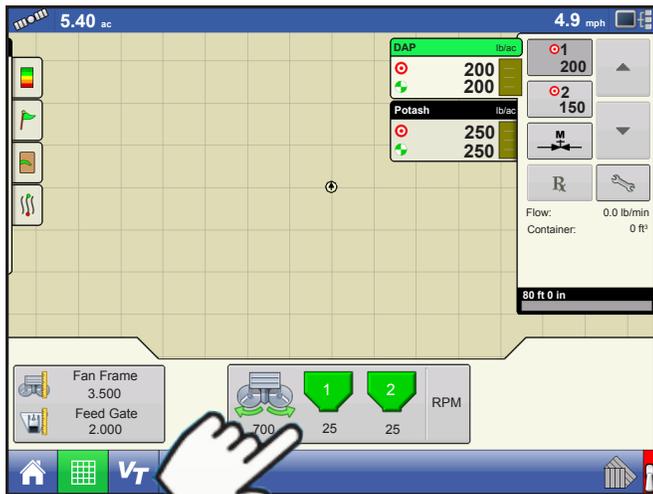


 **Bin Full**
press to fill container

 **Bin Partially Filled**
press to specify container amount

 **Bin Empty**
press to empty container

 **Tank Alarm Setting**
can set % remaining or amount remaining for low container alarm



Fan Frame & Feed Gate Actuator Setting

optional settings used by New Leader module

Fan Frame

enables the fan frame actuator, displays distance between spinner bed and spinner assembly

Feed Gate

enables the feed gate actuator

Spreader Control button

- on/off state of control channel
- shaft speed RPM
- spinner fan speed RPM

Press button to display Spreader Control window.

Spread Width

use numeric keypad to edit value

Spinner Speed

speed is controlled automatically based upon this setting when system uses an optional PWM spinner speed control valve

Chain Oiler

automatically perform oiling routine by pressing button and following the steps

Static Calibration

performs automated routine to calibrate each metering circuit while machine is stationary

In-Field Calibration

performs automated routine to adjust the calibration number for the selected metering circuit if there is a difference between the amount of product logged compared to what was actually applied

Product Density

value (lb/ft³), is stored for each product. Use the numeric keypad to edit value.

Feed Gate Opening

measure depth of product on conveyor to ensure accurate value

Conveyor Rate

volume of product dispensed (ft³/rev) by one revolution of the meter drive shaft