Dry Additive Feeder Quick Reference Sheet

TD - 09 - 06 - 2004 **Revision: C**

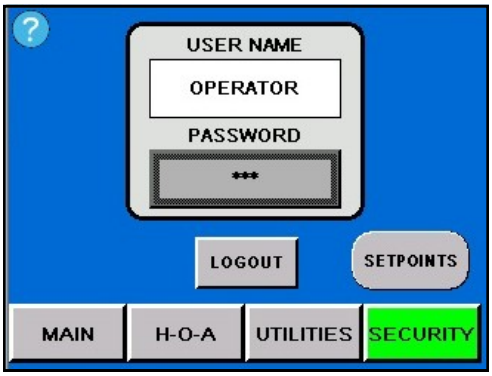
Software Release: Dry Additive Feeder v1.0

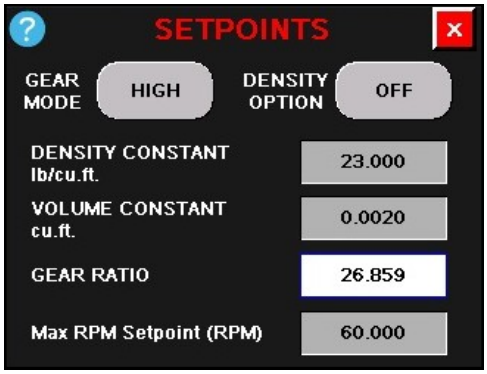
DRY PRODUCT CALIBRATION

When calibrating the dry product, a small scale and a measuring cup or bucket will be needed. Additional information such as treater seed flow rate and dry product application rate will also be needed for calibration.

1. Calibrate the seed flow of the seed treater before calibrating the Dry Additive Feeder. Refer to the operators manual for seed treater calibration instructions.
2. Fill the supply hopper with the dry product being applied.
3. Slide the calibration sleeve toward the end of the auger tube to cover the distribution slots (top picture).
4. From the H-O-A screen, set the hand speed to 75%, then press the HAND button.
5. Allow product to fill the auger all the way to the end of the tube. Use the measuring cup or bucket to catch the product as it empties out the end of the tube. Continue running the auger until there is a consistent stream of product coming out the end. Then turn the H-O-A to OFF. Empty the receptacle.
6. From the Security screen, select the Password button and key in **USC,** then press the Login button. It will toggle to Logout and the Setpoints button will appear
7. The next step is to define the product density. Press the setpoints button and choose one of two density options. If the operator is using similar products for all recipes, set the Density Option button to OFF and enter the density value for that product using the Density Constant button. If they want the flexibility to define a unique density for each individual recipe, set the button to ON. When set to ON, a Product Density button will appear at the bottom of the Recipe Editing screen.

Calibration Sleeve at end of Auger Tube





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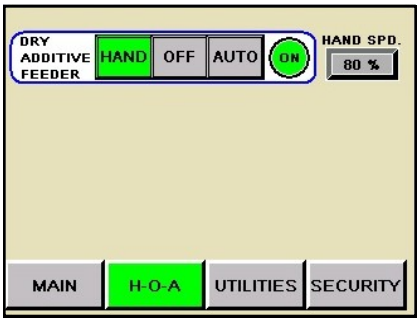
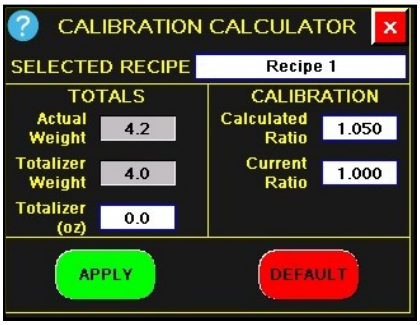
8. From the recipe editing screen, select the unit of measure, enter a value for product to seed application rate, treater seed flow rate and if the button is present, product density. Press the save button. The information for these variables will need to be obtained by the operator from the treater settings and product labels or vendors.

9. Place the measuring cup on the scale and zero the weight of the cup. Then place the measuring cup under the end of the feeder tube.

10. The calibration should run at a rate similar to the rate the product will be applied, which is the calculated rate based on the settings. From the H-O-A screen, press the HAND button. Return to the main screen and monitor the run time display at the bottom of the recipe status box. The run time needs to be a minimum of one minute before returning to the H-O-A screen and pressing the OFF button. The longer the system is run during calibration the more accurate it will be. Be careful not to let any of the product overflow the catch receptacle as this will give an incorrect scale reading when it is weighed.



11. Place the cup of product on the scale to weigh the amount of product that was dispensed.



12. From the calibration calculation screen, press the Totalizer Weight button and enter the number from the Totalizer (oz) display. Press the Actual Weight button and enter the weight of the product in the cup. Press the apply button to be returned to the recipe editing screen. Notice the calibration ratio has been updated. Press the save button to file the calibration and to be returned to the main screen.

NOTICE The unit of measurement of the scale used must be the same as the unit of measurement defined in the recipe. Both in ounces or both in grams.

NOTICE A higher calibration ratio will result in a lower auger RPM and a Lower calibration ratio in a higher auger RPM.

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