INSTALLATION AND USER'S MANUAL
FEEDTRONIC FD-5005

The Feedtronic 5005 is designed to weigh up to two 20 ton silos and give an accurate weight of the feed in each silo separately.

The Feedtronic 5005 can be programmed to give a preset quantity of feed up to 5 different hoppers, each one at a different time and quantity for restrictive feeding.

The Feedtronic 5005 will show the last fill for each silo.

The Feedtronic FD-5005 parts

1. An electronic micro controller box FD-5005
2. Connection Box A/D
3. 4 (8) load cells and mounting brackets.

Installation of Load Cell

Install the load cells when the silo is empty.

1. Mount the load cells to the mounting brackets.
2. Install the mounting bracket below each silo leg. Fasten all screws.
3. Connect the wire from each load cell to the connection box. See Drawing.
4. Make a shorting on J11 if only silo 1 is connected. Make a shorting on J12 if only silo 2 is connected. Make a shorting on J11 and J12 if silo 1 and 2 are connected.
5. Connect the 3-wire cable going to the controller and close the box.
6. Mount the connection box with the wire inlet down.

Installation of Controller

Installation:

1. Unscrew carefully the two screws on the front panel of the controller.
2. Connect the box to the wall in a dry place approx. 1-meter away from the electrical box.
3. Connect a 220V cable to the 220V connector input in the main unit. See diagram.
4. Connect the auger motor relay to its connectors. See diagram.
5. Connect the 3-wire cable from the A/D connection box to the load cell input. See colors. The wire can be up to 50 meter long with a normal 3-wire cable. See Diagram.
6. Connect the electric valve to the 4 line outputs. See Diagram.

Important: The last feed outlet must be without an electrical valve!

7. Connect the feeder to the feeder-output.
8. Connect the Feed sensor if necessary. The FD-5005 will only start if 220V is between the two Feed sensor inputs. See Diagram.
9. Close the front panel with the two screws.
10. Connect 220 Volt to the system.
11. The system is now ready for calibration

Calibration

Turn on the power for at least 15 minutes before making the calibration.
Make sure that the silo is completely empty.

Zero Calibration

1. Set the switch to the "Enter Data" position.
2. Enter "9999" for zero calibration and push on enter.
3. Select the silo by entering 1 for silo 1 and 2 for silo 2.
4. Push on the "enter" button. Zero calibration will start.
5. Zero calibration is completed when set time will appear on the display.
6. Return the switch to "Display" position.
7. Repeat the above steps for calibration of the second silo.

Full Scale Calibration

It is possible to full scale calibrate the Feedtronic 5005 in two ways.

A. Load the silo with a precise known weight.

1. Set the switch to the "enter data" position.
2. Enter "9998" for full-scale calibration and push on "Enter".
3. Select the silo by entering "1" for silo 1 and "2" for silo 2.
4. Push on the "Enter" button.
5. Load the silo with a known weight over 50 Kg.
6. Enter the exact weight and push "Enter".
7. To start the full calibration, push again on "Enter".
8. Full Scale is completed when "Set Time" will appear on the display.
9. Return the switch to "Display" position.
10. Go to function 3 for calibration of the second silo.

B. On each load cell there is a label on the wire with 5 numbers "X.XXXX"
Add the 4 load cell numbers together and divide by 4.

1. Set the switch to the "In Data" position.
2. Enter "9992" and push on "Enter" button.
3. Select the silo by entering "1" or "2".
4. Enter the result X.XXX and push on "Enter".
5. Return the switch to "Display" position.

The FD-5005 will show on its display the weight of the feed in silo A and silo B and the real time clock.
It is possible to see the amount of feed that was delivered to each line daily and total.

1. Set switch to the "Enter Data" position.
2. Push on "Line" button. "Select line" will appear on the display.
3. Enter the line number that you want to see. "01" for line 1 and so on. On the display will appear the daily feed going into hopper 1 from silo 1.
4. By pushing on the arrow-key you can see on the display daily from silo 2 and total from silo 1 and silo 2 to hopper number 1.
5. Return the switch to the "Display" position

OPERATION

Time Setting

The FD-5005 has an internal real time clock (The clock will continue to work when power is removed).

1. Set the switch to the "Enter Data" position.
2. Push the clock button. "Set Time" will appear on the display. Enter the time using the keyboard and than press the "Enter" button.
3. Set the switch to the "Display" position.

Batch

It is possible to enter up to 64 different daily feeding programs into the FD-5005. Each batch is a feeding program. A push on the batch button will give the following message on the display: "Select Batch".
Enter a number from 09-64 (each one is a program).

Example:
On the display will appear:

01: MOTOR 1 07:00
100 Kg #01

The display gives the following information:
The first batch 01 will activate motor 1 at 7:00 o'clock and deliver 100 Kg to hopper no. 1.
By pushing on the arrow keys you can step through all batches.

Set Batch

1. Set the switch to the "Enter Data" position.
2. Push on "Batch" button. On the display will appear: "Select Batch".
3. Choose batch from 01-64. On the display will appear:

XX: MOTOR X XX:XX
X Kg #XX

The cursor will flash on the motor number. Enter motor (silo) number you want to take feed from and press "Enter".
The cursor will go down to the quantity of feed. Enter the quantity and press "Enter".
The cursor will go to the hopper number. Enter the hopper number you want to deliver feed to.
In this program hopper 1 is 01 and so on.
4. Go to the next batch or return the switch to the "Display" position.

It is possible to clear all batches.
1. Set the switch to the "Enter Data" position.
2. Push on "Batch" button.
3. Enter "00" and push on "Enter" button. All batches will be set to 0.

Important:
Do not enter two batches at the same time. If there will be an overlapping of the start time, the FD-5005 will finish its batch and than go to the next batch and so on.

Example:
The first batch is set at 7:00 o'clock. The second batch is set at 7:30 o'clock.
The FD-5005 will start at 7:00 to deliver the first batch and finish at 7:45. The next batch will start at 7:45 instead of 7:30.

The FD-5005 can activate two feeder up to 16 times within a 24 hours period each feeder at a different time.

Male Feeder
Push on "Male Feeder" button . On the display will appear:

Select Male
Feeder Index

Enter the number you want to see, 01-first start time and so on.
By pushing on the arrow keys you can go through the index.

Change of start and stop time
1. Set the switch to the "Enter Data" position.
2. Enter the index number.
3. Enter the start time and push on "Enter" than enter the stop time and push on "Enter".
4. Choose a new index to set or return the switch to the display position.

Female Feeder
The female feeder operates the same as the male feeder.
It is possible to clear each feeder separately by entering index "00" and pressing on "Enter" button. All start and stop times will be set to zero.

Alarm
The FD-5005 will activate its alarm if there is no feed coming out of the silo when one of the motors is activated. The FD-5005 will stop the activated motor.
Press any button on the keyboard to cancel the alarm.
The FD-5005 will display the type of alarm on its display.

Alarm Time

It is possible to set the delay time before the alarm will be activated in case that no feed is coming out of the silo.

1. Set the switch to the "Enter Data" position.
2. Push on the "clock" button, on the display will appear "Set Time"
3. Enter "8884" and push on "Enter"
4. On the display will appear: **Alarm Time**
   Seconds: XX
   Enter the delay time in seconds and push on "Enter"
5. Return the switch to the "Display" position.

Emergency stop of operation

The user can stop and cancel all operations of the FD-5005.

1. Set the switch to the "Enter Data" position
2. Push on "Clock"
3. Enter "8880" and push on "Enter". The system will start again at the next preset batch.

Reset Time

It is possible to set the time that on which FD-5005 will reset its daily feed consumption.

1. Set the switch to the "Enter Data" position.
2. Push on"Clock"
3. Enter "8885" and push on "Enter".
4. Enter the reset time and push on "Enter" button.
5. Return the switch to the "Display" position.

PC Communication

It is possible to connect the FD-5005 to a PC computer.
Each FD-5005 will need a net-name.

Net-Name

1. Set the switch to the "Enter Data" position.
2. Push on "Clock" button
3. Enter "8887" and push on "Enter"
4. Enter the net-name and number of the house (Enter 1 for house 1 and so on). Push on "Enter".
5. Return the switch to the "Display" position.

Important: Do not enter the same number into two FD-5005

Skip-A-Day Function

The FD-5005 can be set to operate with a skip-a-day function.
It is possible to set the number of days, the FD-5005 will skip before it will give feed.

1. Set the switch to the "Enter Data" position.
2. Push on the "Clock" button.
3. Enter "8886" and push on "Enter".

4. Enter the number of days between each feeding day and push on “Enter”, on the display will appear: **Enter Fill**
   Day: X
   “0” is feeding-day , “1” is one day after the feeding-day and so on. Than push on “Enter”
5. Return the switch to the “Display” position.

Last Fill of Silo

It is possible to see the amount of the last filling that was made to the silo.
1. Set the switch to the “Enter Data” position.
2. Push on the “Clock” button
3. Enter “8882” and push on “Enter”.
4. On the silo will appear: **Last Fill**
   Select Silo:

Choose information from silo 1 or 2. The last fill will appear on the display.
5. Return the switch to the “Display” position.

Motor Delay

It is possible to set a delay for the motor to avoid the start of the motor before the electrical valve has been opened This will allow the feed to go out to the hopper.
1. Set the switch to the “Enter Data” position.
2. Push on “Clock” button.
3. Enter “8888” and push on “Enter” button.
4. Enter the delay in seconds and push on “Enter”
5. Return the switch to the display position.

Version Number

It is possible to see the program’s version number installed in your FD-5005.
1. Set the switch to the “Enter Data” position
2. Push on “Clock”
3. Enter “8889” and push on “Enter”
4. The version number will appear on the display.
5. Return the switch to the “Display” position.

Free Mode Operation

It is possible to set the FD-5005 to give feed each time the connected Feed sensor is empty.
Go into the “Skip A Day” function and set Skip A Day to: 99.
Enter in each line that you want to give free feeding “9999” in quantity.

Quantity Error

To avoid a flow after the auger motor stops, it is possible to set an amount of feed in Kg that the auger motor will stop before reaching the total amount which was preset.
1. Set the switch to the “Enter Data” position
2. Push on “Clock” and enter “8883”, push on “Enter”.
3. Set the quantity in Kg and push on “Enter”
4. Return the switch to the “Display” position.