

# INSTALLATION AND USER'S MANUAL

## FEEDTRONIC 4004-A

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### *Revision Summery*

Revision	Date	Done By	Chip Version	Change
1.01	26.6.03	Y.K.	103 and later	Alarm time maximum value is changed from 23:59 to 99:59 mm:ss. If user enters a value of 99:99, then time alarm is disabled.
1.02	25.12.2003	Y.K.	NA	Correct net name code on page 12
1.03	17.3.2004	Y.K.	NA	Remove parts table from page 4
1.04	26.10.2004	Y.K.	NA	Add FD4004A to Silo wiring
1.05	15.11.2004	Y.K.	NA	Change name of silo connection box to A/D SILO box

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# FEEDTRONIC 4004-A

Agro  
Logic

Weight  
Skip a Day Counter   
 Daily Quantity

Total Quantity  
Feeder Run Time   
 Fill

Quantity  
Feeder Start Time   
 Feeding Time

Water Cons.  
 Clock/  
GrowDay

1 Silo A	2 Silo B	3 Quantity Daily
4 Quantity Total	5 Fill	6 Quantity
7 Feeding Time	8 Water Cons.	9 Clock
Enter Next Error	0 Feeder Fill Time	Data
Prog		

Motor  
 Alarm  
 Feeder

# INSTALLATION AND USER'S MANUAL

## FEEDTRONIC 4004-A

The **Feedtronic 4004-A** is designed to weigh up to two silos and give an accurate weight of the feed in each silo separately.

The **Feedtronic 4004-A** will memorize the daily out take up to 9 days back and the total feed consumption.

The **Feedtronic 4004-A** will show the last fill for each silo. It is possible to use the **Feedtronic 4004-A** for restrictive feeding up to 8 times in a 24 hours cycle.

The **Feedtronic 4004-A** will operate a feeder motor and will count water.

### **The Feedtronic 4004-A Parts:**

1. An electronic controller box.
2. Silo connection box A/D SILO.
3. 4 (8) load cells and mounting assemblies.

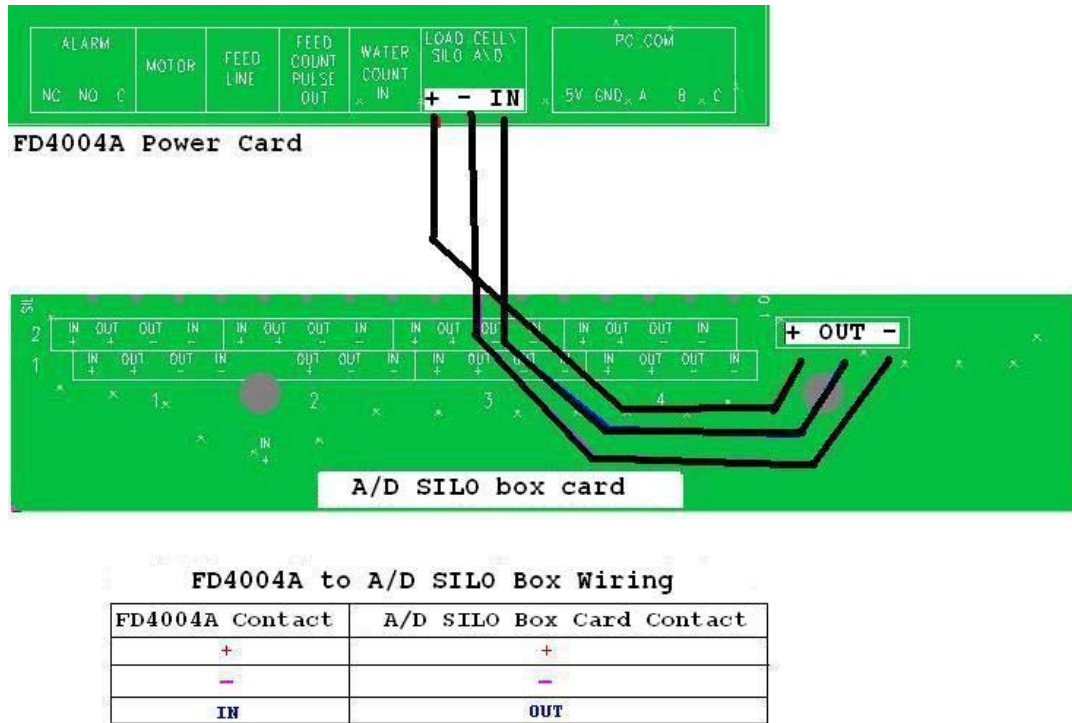
### **Order of Installation:**

1. Install the silo mounting hardware as explained in the silo installation manual FD4004A-Silo Installation Manual.doc\FD4004A-Silo Installation Manual.pdf
2. Configure the A/D SILO box as follows: Make a shorting on JMP1 (or J11 in the old version card) if only Silo 1 is connected. Make a shorting on JMP2 (or J12 in the old version card) if only Silo 2 is connected. Make a shorting on JMP1 (J11) and JMP2 (J12) if Silo 1 and Silo 2 are connected.  
*Note* when a jumper in the A/D SILO box is not installed the weight display will show "----" instead of the silo weight.
3. Connect the 3-wire cable going to the controller as in Figure 1 and close the A/D SILO box.
4. Hang the A/D SILO with the wire inlet facing down.

# INSTALLATION OF CONTROLLER

## INSTALLATION

1. Unscrew carefully the four big screws on the front panel of the controller.
2. Remove completely the front panel by pulling out the plug in the bottom of the box. Note that the plug must be tipped clear by pulling out the 2 locking wings sideways.
3. Connect the box to the wall in a dry place.
4. Connect a 220 cable to the 220V connector in the main unit.
5. Connect the auger motor relay to its connector.
6. Connect the 3-wires cable coming from the A/D SILO box to the load cell inputs as in Figure 1. The cable length can be up to 50 meter with a normal 3-wire cable.
7. Connect the feed sensor (from the bottom hopper) to the feed sensor input. This connection must give output of 220V when the bottom hopper is empty.
8. Connect the black flat cable plug from the panel back to the bottom of the box.
9. Close the front panel with the four big plastic screws.
10. The system is now ready for calibration.



**Figure 1**

## **CALIBRATION**

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

### **ZERO CALIBRATION**

1. Choose the number of the silo to calibrate by pressing on keys 1 or 2. The weight light is on. When silo 1 is selected the letter A is displayed and for silo 2-b.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "9999" and press Enter. On the display will appear "A\_CAL1" or "b\_CAL1". While entering the code the letters "Cd" blink.  
Press '0' and then Enter. On the display will appear "A\_CAL2" or "b\_CAL2".  
Press '0' and then press Enter. The calibration starts. While the calibration process, the display will show "\_CAL\_A" or "\_CAL\_b" with blinking underscores. After a half a minute the weight "0.000" appears. The silo is zero calibrated. You can stop the calibration at any time by pressing the Data or Prog keys.

### **FULL SCALE CALIBRATION**

It is possible to full scale calibrate the Feedtronic 4004-A in two ways.

A. Fill the silo with a precise known weight.

1. Choose the number of the silo to calibrate by pressing on keys 1 or 2.
2. Press Prog. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "9998" and press Enter. On the display will appear "A.FULL1" or "b.FULL1". While entering the code the letters "Cd" blink.
4. Enter the known weight and Press Enter ((the known weight entered should be above 50 Kg). On the display will appear "A.FULL2" or "b.FULL2".
5. Enter the known weight again and press Enter. The calibration starts. While the calibration process, the display will show "- CAL - A" or "- CAL - b" with blinking hyphens. After a half a minute the silo weight is displayed. The silo is now calibrated. You can stop the calibration at any time by pressing on the Data or Prog keys. If you entered a different weight than the one in step 4, the letter E is shown. Enter the correct weight.

B. On each load cell there is a label on the wire with 4 digits X.XXX or 5 digits X.XXXX. This number is the load cell constant.

Add all the load cell constants together and divide by the number of the load cells. You should get a number around 3.000. If the load cell constants are 5 digits round the result as follows: if the fifth digit is above 5 add 1 to the first four digits.

1. Choose the number of the silo to calibrate by pressing on keys 1 or 2.
2. Press Prog. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "9992" and press Enter. On the display will appear "Ld.CELL" and then "A X.XXX" or "b X.XXX".  
Enter the first four digits of the result and press Enter. On the display will appear "CAL A" or "CAL b" with blinking hyphens. After 10 seconds the silo weight is displayed. The silo is now calibrated.

### **PRINCIPLE OF OPERATION**

The Feedtronic 4004-A is a stand-alone dual silo weigher. It is possible to set the Feedtronic 4004-A in two operation modes.

#### **A. FREE FEEDING**

In this mode the **Feedtronic 4004-A** will activate the auger motor each time it will receive information from a feed sensor that there is no feed in the hoppers inside the house.

The **Feedtronic 4004-A** will give the following information:

1. Amount of feed in the silo.
2. Daily feed consumption up to 9 days back on a day-to-day basis.
3. Total feed consumption through the whole growing period.
4. Last fill of the silo from truck.  
In case that the auger motor will operate more than a preset time and no feed is going into the house, the auger motor will stop and the alarm relay will be activated.
5. If there is a silo fill, feed will continue from the other silo.

To set the **Feedtronic 4004-A** to Free Feeding mode set feed quantity of 9.999.

#### **B. RESTRICTIVE FEEDING**

In this mode it is possible to preset a quantity of feed and a start time. When the preset start time is reached, the Feedtronic 4004-A will start the auger motor and stop when the preset amount of feed has been given into the house.

In case that there is feed on the connected feed sensor, the auger motor will stop and start when the feed sensor is free of feed.

In case that there is no feed going out of the silo in a preset time, the auger motor will stop and the alarm relay will be activated.

In case there is a power fail when the quantity is given, the reset of the quantity will be given immediately when the power returns.

It is possible to set up to 8 start times with the same amount of feed.

### **OPERATION**

It is possible to view on the **Feedtronic 4004-A** all the information.

Each Press on the Data button will show the next data in the order of the lights on the left side of the **Feedtronic 4004-A**. To view certain information you can also press on one of numeric keys.

### **WEIGHT**

When the Weight light is on, it is possible to view the weight in the silos in Tons. Pressing on key 1 will show silo A and a pressing on key 2 will show silo B.

### **DAILY QUANTITY**

To view the daily feed consumption in Tons press on the Data key until the Daily Quantity light lights up or press on key 3. Any press on the Data key will display the previous day consumption up to 9 days back. To change the Daily Quantity please follow the instructions in SETTING DATA below.

### **TOTAL QUANTITY**

To view the total feed consumption in Tons since the start of the growing period press on the Data key until the Total Quantity light lights up or press on key 4. To change the Total Quantity please follow the instructions in SETTING DATA below.

### **FILL**

To view the last fill of silo A in Tons press on the Data key until the Fill light lights up or press on key 5. Pressing on the Data key again will show the last fill for silo B. To change the Last Fill please follow the instructions in SETTING DATA below.

### **QUANTITY**

To view the preset quantity for restrictive feeding in Tons press the Data key until the Quantity light lights up or press on key 6. This is the amount of feed that is given in any Feeding Time (see below). To change the quantity please follow the instructions in SETTING DATA below.

### **FEEDING TIME**

When the Feeding Time light lights up, it is possible to view the preset start time for restrictive feeding in 24-hour format. In each preset time the auger motor will start to give the preset quantity. If more than one start time is set (see NUMBER OF FEEDING TIMES below), each press on the Data key will show the next feeding time. To change the a Feeding Time please follow the instructions in SETTING DATA below.

## WATER CONSUMPTION

The **Feedtronic 4004-A** will count each pulse in WATER COUNT IN input as 1 liter. To view the daily water consumption in liters press on the Data key until the Water Cons light lights up or press on key 7. Any press on the Data key will display the previous day consumption up to 9 days back. To change the Water Consumption please follow the instructions in SETTING DATA below.

## CLOCK\GROWING DAY

When the Clock light lights up it is possible to view the real time clock in 24-hour format. An additional press on the Data key will show growing day. To change the Clock\Growing Day please follow the instructions in SETTING DATA below.

## SKIP A DAY COUNTER

To view the number of days left until the next feeding day (see SKIP A DAY below) press on the Data key until Skip a Day Counter lights light up. To change the Skip a Day Counter please follow the instructions in SETTING DATA below.

## FEEDER RUN TIME

To operate the separate Feeder motor the Feeder run time in minutes and seconds and the operating time have to be preset.

To view the Feeder run time press the Data key until Feeder Run Time lights light up or press on key 0. To change the Feeder Run Time please follow the instructions in SETTING DATA below.

## FEEDER OPERATING TIMES

To view the feeder operating times (in 24-hour format) press on the Data key until the Feeder Times lights light up. Each press on the Data key will show the next feeder time. The number of times that are displayed depends on the setup value of NUMBER OF FEEDER TIMES (see below). To change the Feeder Times please follow the instructions in SETTING DATA below.

## SETTING DATA

It is possible to change data on the **Feedtronic 4004-A**:

1. Go to the desired data by pressing the Data or numeric keys.
2. Press on the Prog key. The light on left side of the **Feedtronic 4004-A** and the letters on the left side of the display start to blink.
3. Enter the desired information with the numeric keys.
4. Press on the Enter key button to store the information in the **Feedtronic 4004-A** memory. If the entered value is in the range allowed, it is saved and the light and the letters in the display will stop to blink. If the entered value is out of the permissible range, the letter E appears at the right-most digit of the display. While entering the desired information, press the Data key to start over or Prog to stop entering information without saving the entered value.

## **STOP ALL**

It is possible in the restrictive mode to stop a batch during operation.

1. Press the Data key until Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Press on the 0 key. The display shows "FEED STOP".
4. Press on the Enter key. "STOP" is displayed.

The **Feedtronic 4004-A** stops its operation immediately. The **Feedtronic 4004-A** will start again at the next preset feeding time.

**Note: It is advisable to do STOP ALL whenever starting a new growing period.**

## **MANUAL QUANTITY**

The **Feedtronic 4004-A** can give a quantity immediately after the user sets it.

To set Manual Mode do as follows:

1. Press the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "8886" and the press Enter. On the display will appear "Skip" and then "|- X". While entering the code the letters "Cd" blink.
4. Press on the '9' key and then press Enter. The Weight light stops blinking and the display shows the silo weight.

To set the quantity to give do as follows:

1. Press the Data key until the Quantity light lights up or press on key '6'.
2. Press on the Prog key. The Quantity light and the letter 'F' blink.
3. Enter the quantity to give and press Enter. The Quantity light and the display stop blinking. The amount is immediately given and the display shows the amount that is remained to give. When all of the quantity is given the display will show "0.000".

To return to Feeding Times mode:

1. Press the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter (A or b) start blinking.
3. Enter the code "8886" and the press Enter. On the display will appear "Skip" and then "|- X". While entering the code the letters "Cd" blink
4. Enter the skip day (0 to 2) and press Enter. The Weight light stops blinking and the display shows the silo weight.

## **SETUP FUNCTIONS**

Before starting to use the **Feedtronic 4004-A** it is important to enter all the following setup functions.

### **RESET TIME**

It is possible to set the reset time.

The reset time will reset the daily feed and water consumption automatically and move it to the previous day.

1. Press the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "8885" and press Enter. On the display will appear "RESET.T" and then "RtXXXX". While entering the code the letters "Cd" blink.
4. Enter the new reset time in 24 hours mode in (midnight is 00:00) and press Enter. The Weight light stops blinking and the display shows the silo weight.

### **ALARM TIME**

The **Feedtronic 4004-A** will give an alarm and stop the auger motor in case there is a request for feed and the requested feed is not going out from the silo in a preset time.

The time can be set as follows:

1. Press the Data key until Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "8884" and press Enter. On the display will appear "ALAR.T" and then "ALXXXX". While entering the code the letters "Cd" blink.
4. Enter the maximum time in minutes and seconds before stopping the auger motor and activating the alarm and press Enter. The value should be at least 30 seconds. The Weight light stops blinking and the display shows the silo weight.

**Note** If the value entered is 99:99 mm:ss, then this alarm is disabled.

### **SKIP A DAY**

It is possible to do feeding only every second or third day. To do feeding every second day enter the number 1 in the Skip A Day" data and to do feeding every third day enter the number 2. If feeding is required every day, enter the number 0. To enter the desired number do as follows:

1. Press the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "8886" and the press Enter. On the display will appear "Skip" and then "|- X". While entering the code the letters "Cd" blink.
4. Enter the number of days to skip (0 to 2) and then press Enter. The Weight light stops blinking and the display shows the silo weight.

### **IMPORTANT**

**It is not possible to set Skip a Day Counter value bigger than the value entered for Skip a Day.**

### **QUANTITY ERROR**

To avoid flow after the auger motor stops in restrictive feeding mode, it is possible to set an amount of feed in Kg that the auger motor will stop before reaching the total amount that was preset.

1. Press on the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "8882" and press Enter. On the display will appear "QUT.ERR" and then "qE X". While entering the code the letters "Cd" blink.
4. Enter the amount of feed to stop before reaching the total batch in Kg (0 to 5) and press Enter. The Weight light stops blinking and the display shows the silo weight.

### **NUMBER OF FEEDING TIMES**

It is possible to set up to 8 feeding times when the system is in the restrictive feeding mode.

1. Press the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "8883" and the press Enter. On the display will appear "FEED.NO" and then "Ft X". While entering the code the letters "Cd" blink.
4. Enter the number of feeding times (1 to 8) and press Enter. The Weight light stops blinking and the display shows the silo weight.

### **NUMBER OF FEEDER OPERATING TIMES**

It is possible to set up to 8 operating times for the feeder motor.  
To set the number of operating times:

1. Press the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "8888" and the press Enter. On the display will appear "FEEDER" and then "Fr X". While entering the code the letters "Cd" blink.
4. Enter the number of operating times (1 to 8) and press Enter. The Weight light stops blinking and the display shows the silo weight.

### **MINIMUM SILO WEIGHT**

The **Feedtronic 4004-A** will activate an alarm if one of the silos' weights is under a preset value. To set this value:

1. Press on the Data key until the Weight light lights up or press on keys 1 or 2.

2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "8889" and press Enter. On the display will appear "\_XXXXX". While entering the code the letters "Cd" blink.
4. Enter the silo weight to operate the alarm and press Enter. The Weight light stops blinking and the display shows the silo weight.

### **PC COMMUNICATION**

It is possible to connect the **Feedtronic 4004-A** to a PC computer.

If the **Feedtronic 4004-A** is connected to the PC computer a net-name has to be set.

1. Press on the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "8887" and press Enter. On the display will appear "NET NO" and then "nt XX". While entering the code the letters "Cd" blink.
4. Enter a number between 1 and 99. Press Enter. The Weight light and the display stop blinking.

### **CLEARING HISTORY**

When starting a new growing period it is advisable to clear feed and water history values.

1. Press on the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press on the Prog key. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "7000" and press Enter. The display will blink with the message "CLEAR.H". While entering the code the letters "Cd" blink.
4. Press Enter. All history data is now cleared. The Weight light and the display stop blinking.

### **ALARMS**

When an error occurs in the operation of the **Feedtronic 4004-A** the Alarm relay will switch from the NO (Normally Open) position to the NC (Normally Close) position thus causing an alarm to go off (if a separate Alarm System is connected). The number of the error appears on the display instead of the silo weight. The user can clear the error by pressing on any key apart from Enter key.

If more than one error occurred, the number of the next error can be viewed by pressing on the **Enter\Next Error** key before any other key is pressed. Certain errors stop feeding until the error condition ends or until the user cancel the error by pressing on any key as mentioned above.

The error numbers are:

- Err 0: Free Feeding Error. This error occurs in Free Feeding only if both silos give feed. This error doesn't stop feeding.
- Err 1: Time Error. This error occurs if the auger motor is on and the no feed is going out from the silo in a preset time (see Alarm Time above). **This error always stops feeding.**
- Err 2: Calibration Error. This error occurs if the calibration process has failed. Try calibrating the silo again. This error stops feeding in Restrictive Feeding mode, only if both silos have calibration errors.
- Err 3: Preset Data Error. This error occurs if the preset data got corrupted. This error stops feeding in Restrictive Feeding mode only. If this error occurs reenter all preset data and recalibrate the silos.
- Err 4: Silo Data Error. This error occurs when no data is received from the silo. Check the connection between the silo and the **Feedtronic 4004-A**. This error stops feeding in Restrictive Feeding mode only.
- Err 5: RAM Memory Error. This error occurs if the RAM memory has a hardware error. The **Feedtronic 4004-A** needs to be repaired by a qualified technician. This error stops feeding in Restrictive Feeding mode only.
- Err 6: EEPROM Memory Error. This error occurs if the EEPROM memory has a hardware error. The **Feedtronic 4004-A** needs to be repaired by a qualified technician. This error doesn't stop feeding.
- Err 7: Real Time Clock Error. This error occurs if the Real Time Clock that keeps the time in an absence of power has failed. The **Feedtronic 4004-A** needs to be repaired by a qualified technician. This error stops feeding in Restrictive Feeding mode only.
- Err 8: Preset Non Critical Error. This error occurs when these preset data values got corrupted: Net Name and Minimum Silo Weight Set Point. This error doesn't stop feeding. Enter the values again.
- Err 9: Minimum Silo Weight Alarm. This error occurs when the weight in one of silos is under Minimum Silo Weight Set Point. This error doesn't stop feeding. After the user cancel the error by pressing on any key, the error will be disabled until the silo is filled again.
- Note** the error number is displayed with the letter representing the silo number, for example, "A Err1" or "b Err3". All the errors except for Err2 and Err9 will be displayed for both silos. Err2 and Err9 will be displayed only for the silo that has the error.

## **SOLVING CALIBRATION PROBLEMS**

The **Feedtronic 4004-A** calculates the silo weight by converting the data it receives from the Silo Connection box. For each silo a number between 0 and 65535 is received. This number is proportional to the weight: a higher weight gives a higher number. The weight is then calculated by this simple formula:

Silo weight =

(Current Value of the Number - **Zero Data**) X **Load Cell Constant**

Where **Zero Data** is the number received when the silo is empty (tare value) and is registered in the **Feedtronic 4004-A** by doing the **zero calibration**. The **Load Cell Constant** is calculated by doing the **full calibration**. After the calibration process is completed it is advisable to read these two values from the **Feedtronic 4004-A** and save them for future use if a need for re-calibration is aroused and the silo is not empty.

To read the **Zero Data**:

1. Choose the number of the silo by pressing on keys 1 or 2.
2. Press Prog. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "9991" and press Enter. On the display will appear "ZERO" and then the number "AXXXXX" or "bXXXXX". Write down the number. While entering the code the letters "Cd" blink.
4. Press Prog.

To read the **Load Cell Constant**:

1. Choose the number of the silo by pressing on keys 1 or 2.
2. Press Prog. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "9992" and press Enter. On the display will appear "Ld.CELL" and then "A X.XXX" or "b X.XXX". Write down the number X.XXX. While entering the code the letters "Cd" blink.
4. Press Prog.

Err 2: "Err 2" is displayed when the current value of the number received from the silo is smaller than the **Zero Data**. When "Err 2" is displayed, the **Feedtronic 4004-A** need to be re-calibrated.

#### Re-Calibration When The Silo is Not Empty

To re-calibrate the silo when the silo is not empty you can use the values of **Zero Data** and the **Load Cell Constant** that were saved by you after the last calibration.

Zero Calibration:

1. Choose the number of the silo by pressing on keys 1 or 2.
2. Press Prog. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "9991" and press Enter. On the display will appear "ZERO" and then the number "AXXXXX" or "bXXXXX". While entering the code the letters "Cd" blink.
4. Enter the known **Zero Data** and press Enter. The calibration starts. While the calibration process, the display will show "\_CAL\_A" or "\_CAL\_b" with blinking underscores. The calibration takes 10 seconds to complete and then the weight of silo is displayed.

Full Calibration:

1. Choose the number of the silo to calibrate by pressing on keys 1 or 2.
2. Press Prog. The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "9992" and press Enter. On the display will appear "Ld.CELL" and then "A X.XXX" or "b X.XXX". While entering the code the letters "Cd" blink.  
Enter the saved **Load Cell Constant** and press Enter. On the display will appear "CAL A" or "CAL b" with blinking hyphens. After 10 seconds the silo weight is displayed. The silo is now calibrated.

## SOLVING INSTALLATION PROBLEMS

### A. Checking The **Feedtronic 4004-A** - A/D SILO Box Communication

You can verify that the connection between the **Feedtronic 4004-A** and the A/D SILO box has been done correctly and that the data received from the A/D SILO box is without errors.

1. In the A/D SILO box remove the jumpers JMP1 and JMP2 (J11 and J12 in the old version card).
2. In the **Feedtronic 4004-A** choose the number silo by pressing on keys 1 or 2.
3. Press Prog. . The Weight light and the silo letter ('A' or 'b') start blinking.
4. Enter the code "8881" and press Enter. On the display will appear "AD.Data" and then "AXXXXX" or "bXXXXX", where XXXXX is the data received from the A/D SILO box. The letters A or b blinks whenever a new data is received. While entering the code the letters "Cd" blink.
5. To view the other silo data press on keys 1 or 2.
6. If the data for silo A is "1234" and for silo b-"5678", the connection with the A/D SILO box is correct and the data received from the A/D SILO box is without errors.
7. Press on the Prog key.
8. In the A/D SILO box replace jumpers JMP1 for silo 1 and JMP2 for silo 2 (J11 and J12 in the old version card) .

### B. Checking the Feed Sensor Connection

The Feed Sensor that is connected to **Feedtronic 4004-A** should output 0VAC when it detects feed and 2200VAC when it doesn't detect feed. To check that the sensor is connected correctly do as follows:

1. Press on the Data key until the Weight light lights up or press on keys 1 or 2.
2. Press Prog. . The Weight light and the silo letter ('A' or 'b') start blinking.
3. Enter the code "7777" and press Enter. On the display will appear "FEED.IN" and then "FEED" when the feed sensor detects feed and "no.FEED" when it doesn't detect feed. While entering the code the letters "Cd" blink.
4. Press on the Prog key

### CODES SUMMERY

Code	Function	Range
7000	Clear History	Not Applicable
7777	View Feed Sensor Output	"FEEd"\no.FEEd"
8880	View Software Version Number	1-9999
8881	View Silo Data	0-65535
8882	Set Quantity Error	0-5 Kg

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8883	Set Number Of Feed Times	1-8
8884	Set Alarm Time	00:30-99:59 mm:ss <b>99:99 disables alarm</b>
8885	Set Reset Time	00:00-23:59 hh:mm
8886	Set Skip Day\Manual Mode	0,1,2,9
8887	Set Net Name	1-99
8888	Set Number Of Feeder Times	1-8
8889	Set Silo Minimum Weight	0-32.767 Tons
9991	Set Zero Data	0-65535
9992	Set Load Cell Constant	0-65535
9998	Full Weight Calibration	0.050-65.535 Tons
9999	Zero Weight Calibration	Not Applicable

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