

BIG Info

Stalltechnik für die Schweinehaltung | Equipment for pig production
Equipement pour l'exploitation porcine | Equipamiento para producción porcina
Оборудование для свиноводства

Operating Instructions

SiloCheck

Code No. 99-97-2812 GB

Edition: 04/2011



Big Dutchman
PIG EQUIPMENT

Big Dutchman Pig Equipment GmbH
Postfach 1163 · 49360 Vechta · Deutschland
Tel. +49 (0) 4447-801-0 · Fax +49 (0) 4447-801-237
big@bigdutchman.de · www.bigdutchman.de

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Big Dutchman Pig Equipment GmbH

P. O. Box 1163

49360 Vechta

Germany

Tel: +49(0)4447-801-0 Fax: +49(0)4447-801-237 e-mail: big@bigdutchman.de

1 System description

Program version: V2.4 100313

The filling level of up to 60 silos can be checked using the SiloCheck PC user interface. SiloCheck gathers together all consumers and automatically detects silo filling.

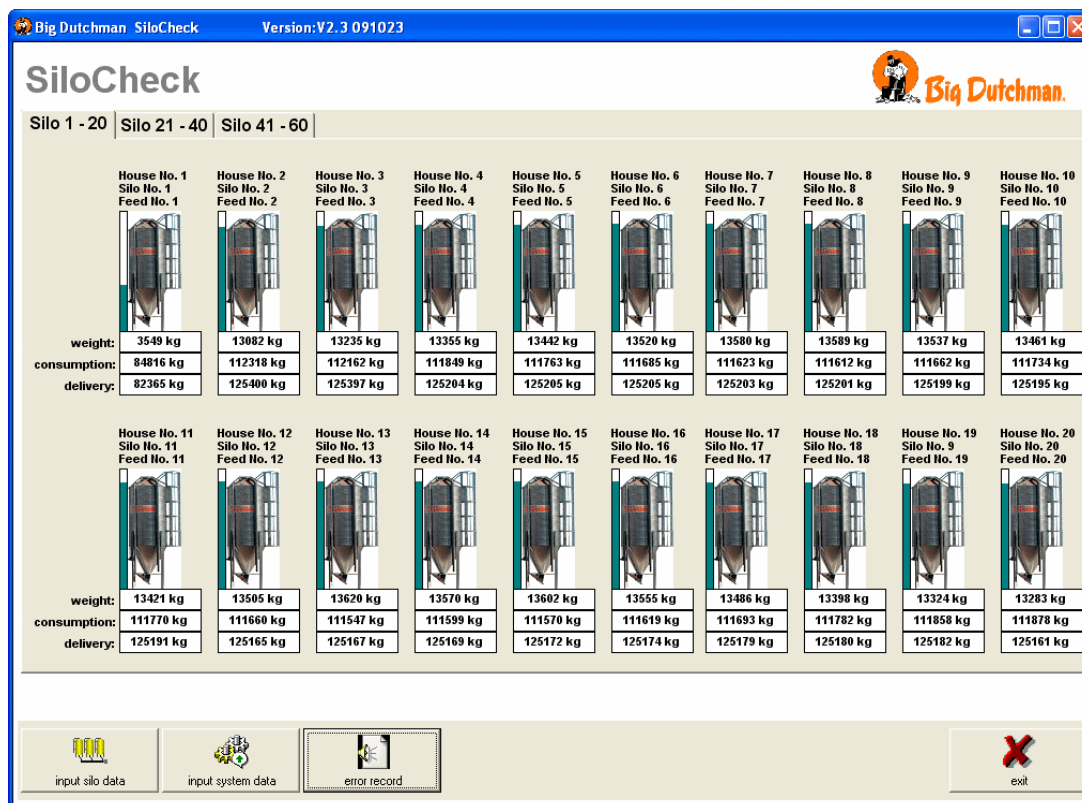


Figure 1-1: SiloCheck Main Screen

A SiloCheck system is comprised of the following components:

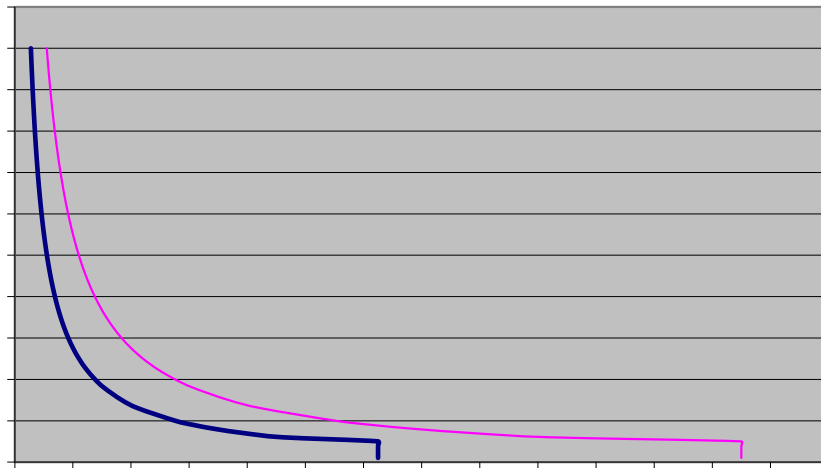
- PC (at location)
- SiloCheck program (Code No. 91-02-4132)
- Power supply 24VDC 5A SiloCheck with RS485 interface
- Weighing boxes
- Weigh bars
- Cable for data LIYCY 2x2x0.75mm²
- Optional
 - Power supply 24VDC 5A SiloCheck (Code-No. 21-00-2402)
 - Modul Info Matic Wireless Link central array (Code-No. 60-43-0293)
 - Modul Info Matic Wireless Link directive array (Code-No. 60-40-2237)

2 Installation

2.1 System limits

- maximum 31 weighing boxes for each com port
- 4 - 8 weigh bars for each box
- maximum line lengths for the RS485 bus (1000m)
- maximum range (radio): radius up to 1000m

Number of power supply depending on distance and number of weighing boxes



2.2 Example installation

2.2.1 SiloCheck system (data transfer using data cable)

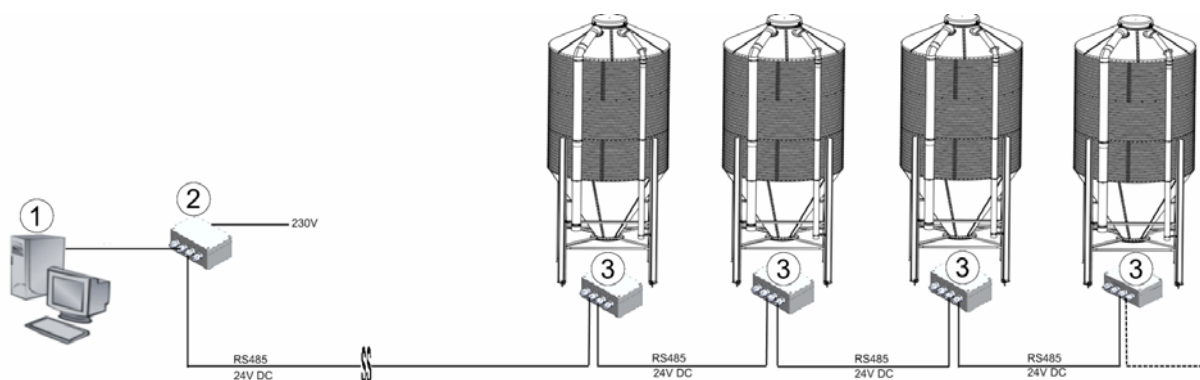


Figure 2-1: SiloCheck - RS485 network with 4 silos

1. PC
2. Power supply 24VDC 5A SiloCheck with RS485 interface
3. Weighing box

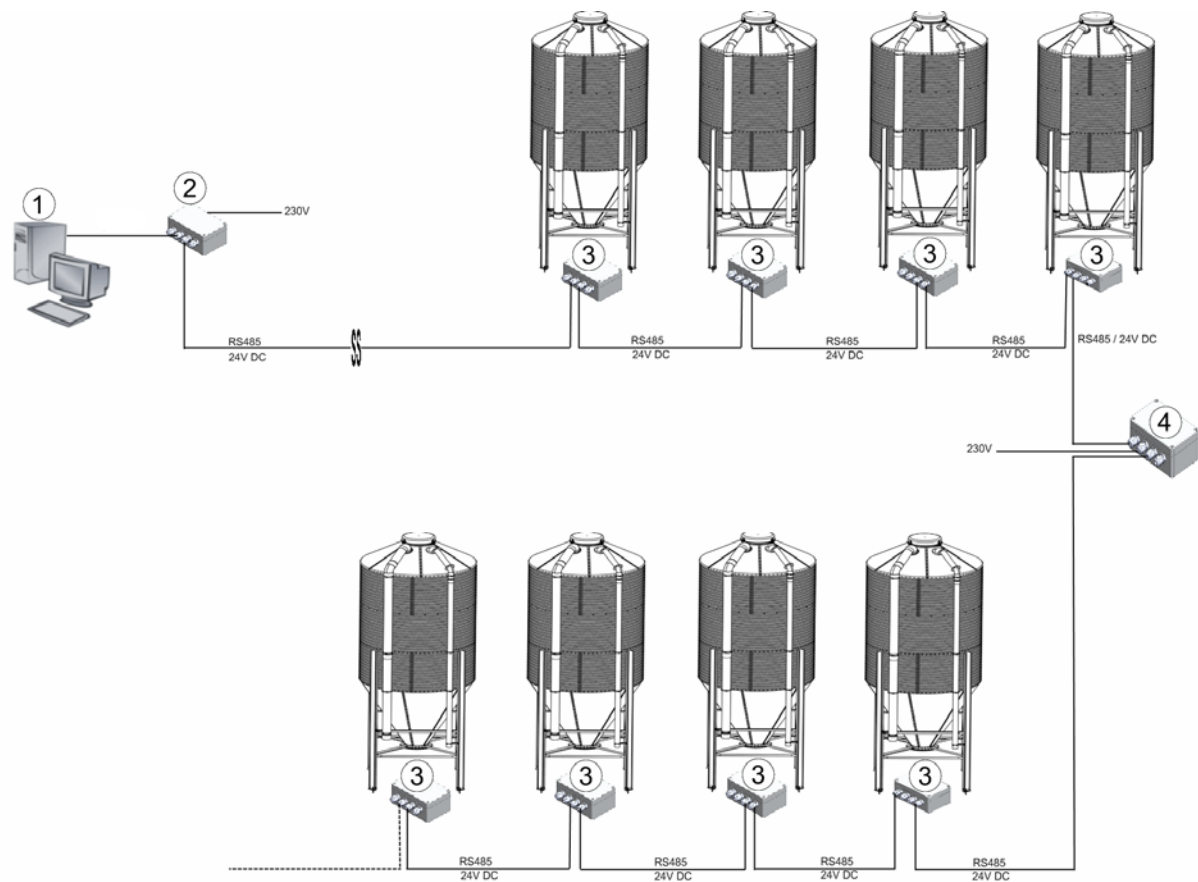


Figure 2-2: SiloCheck - RS485 network with 8 silos

1. PC
2. Power supply 24VDC 5A SiloCheck with RS485 interface
3. Weighing box
4. Additional power supply
 - Power supply 24VDC 5A SiloCheck

For very large distances and many weighing boxes it may be necessary to provide an additional power supply.

2.2.2 SiloCheck system (wireless data transfer)

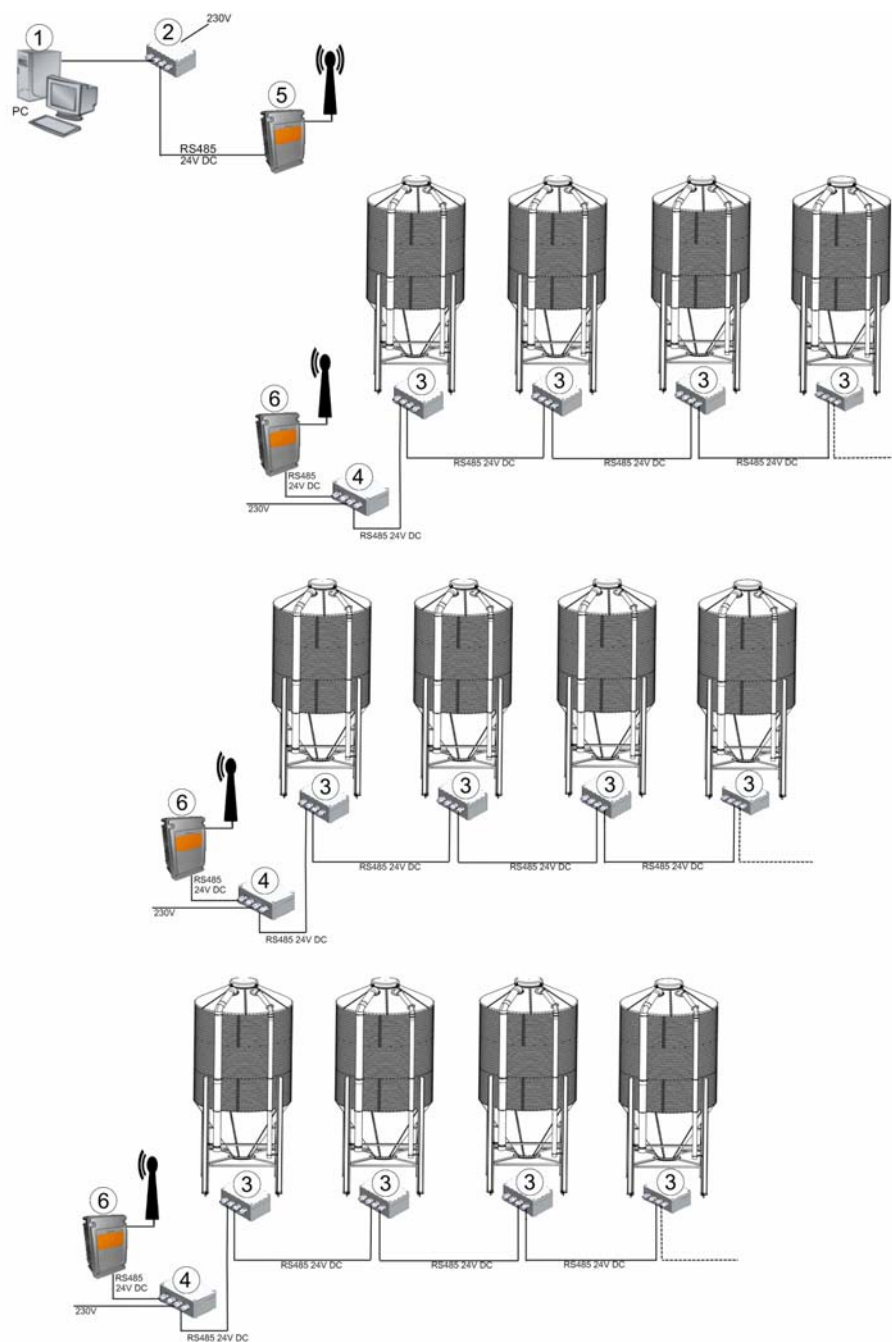


Figure 2-3: SiloCheck - RS485 network with 4 radio modules und 12 silos

1. PC
2. Power supply 24VDC 5A SiloCheck with RS485 interface
3. Weighing box
4. Power supply 24VDC 5A SiloCheck
5. Modul Info Matic Wireless Link central array
6. Modul Info Matic Wireless Link directive array

2.3 PC requirements

Hardware:

- IBM compatible PC (from Pentium IV processor with at 1GHz or comparable)
- 10MB unallocated drive space
- Unassigned serial interface Com1, Com2 or USB*
- * for the USB-port connection you need a RS232/USB converter
- VGA graphics with min. 1024x786 pixels resolution
- CD Rom drive
- USB interface (for alarming)

OS:

- Windows XP / Win2000 / Windows Vista / Windows 7

2.4 Installing the software

The program is delivered on a CD.

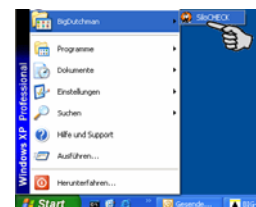
1. Place the CD in the CD Rom drive and start the "SiloCheck_Setup" program!
2. Installation should start automatically via the autostart function. If not, then start the "SiloCheck_Setup" program directly from the CD Rom directory!
3. Select the required language and then follow the instructions from the installation program.
4. The standard suggested installation directory on the hard drive is "c:\Programme\SiloCheck". However, you can also scroll through directories to select another target.

After successful installation, an icon is installed on the Desktop; you can start the program by double-clicking on this icon.



Alternatively, you can call up the program from the Windows Start Menu:

Start - BigDutchman - SiloCheck



2.5 Commissioning

A SiloCheck system is comprised of the following components:

- PC (at location)
 - SiloCheck program (Code No. 91-02-4132)
 - Power supply 24VDC 5A SiloCheck with RS485 interface
 - Weighing boxes
 - Weigh bars
 - Cable for data LIYCY 2x2x0.75mm²
 - Optional
 - Power supply 24VDC 5A SiloCheck (Code-No. 21-00-2402)
 - Modul Info Matic Wireless Link central array (Code-No. 60-43-0293)
 - Modul Info Matic Wireless Link directive array (Code-No. 60-40-2237)
1. Check that all required components are installed.
 2. Check that all devices are correctly connected.
 - (connection plans are enclosed with the single devices).
 3. If you install a SiloCheck system with wireless modules, you must first program the modules.
 - see chapter "Programming the wireless modules", page 9
 4. Start the SiloCheck program.
 5. Select the required language from the "input system data" window.
 - (see chapter "System data", page 33)
 6. Define the serial interfaces (com ports) in the "input system data" window
 - (see chapter "Serial interface", page 34)
 7. Re-start the program!
 8. Program the weighing boxes
 - (see chapter "Box programming", page 38)
 9. Enter the technical data of the weighing boxes.
 - (see chapter "Input box data", page 36)
 10. Re-start the program!
 11. Initialise the scale
 - (see chapter "Init of weighing boxes", page 36)
 12. Balance the scale.

- (see chapter "Adjust weighing system", page 23)

13. Tare the scale

- (see chapter "Taring", page 27)

The SiloCheck system should be ready after you have carried out all of these steps.

2.6 Programming the wireless modules



Figure 2-4: Wireless Modul

2.6.1 General information

If data from SiloCheck is to be transmitted wireless, the Info Matic wireless modules have to be used.

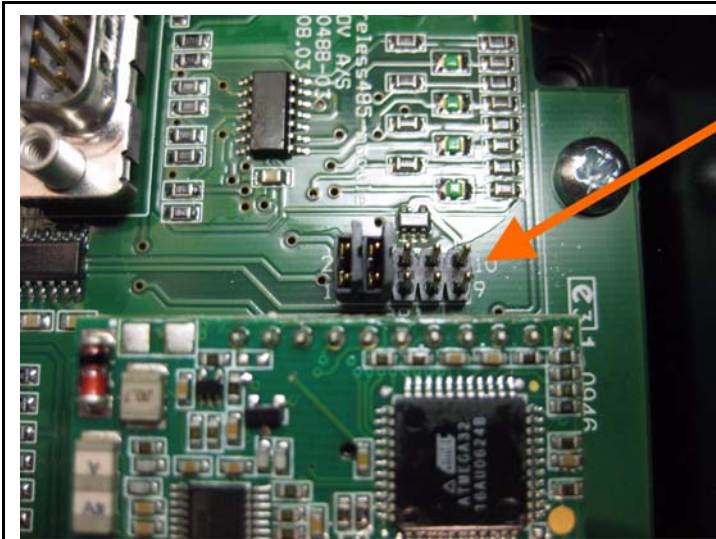
These modules are not by default set up for SiloCheck. This means every wireless module has to be re-programmed before it can be used with SiloCheck.

Because it is necessary to connect a PC directly to the module to carry out the re-programming, it is recommended to program all modules before installing them in the system!

2.6.2 Preparation

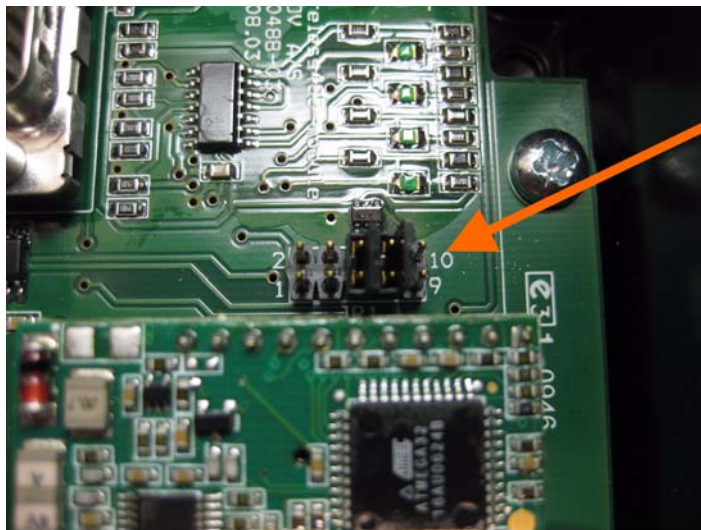
By default, the wireless modules communicate via a RS485 interface. For programming with the PC, they have to be connected by means of the provided RS232 cable.

Before connecting the module, two coding plugs on the module have to be re-plugged:



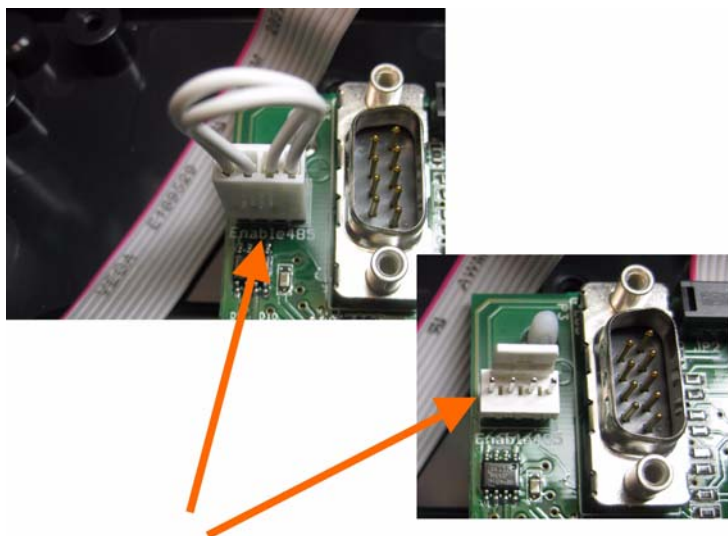
Coding plugs as delivered

When the module is delivered, the coding plugs are plugged in at the left position (1-2 and 3-4). For programming they have to be moved two positions toward the right (5-6 and 7-8)



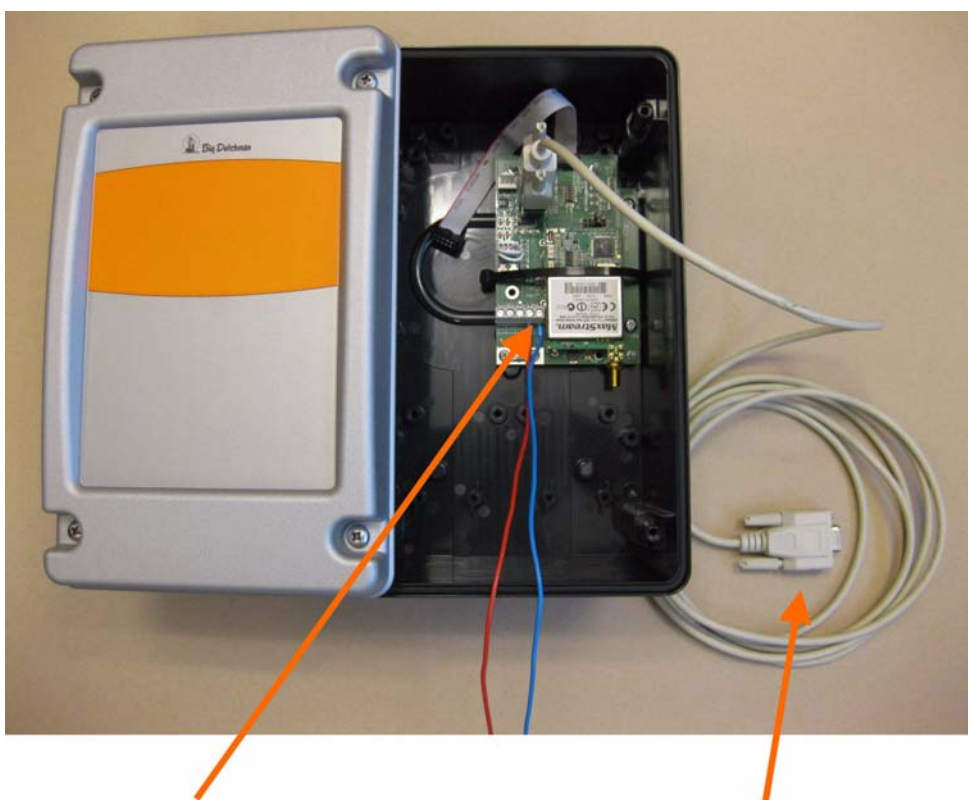
Coding plugs re-plugged for programming

Remove the plug "Enable 485":



Plug "Enable 485" removed

The wireless module can now be supplied with 24V DC by means of one of the power supply units and can be connected to the PC via the provided RS232 cable:

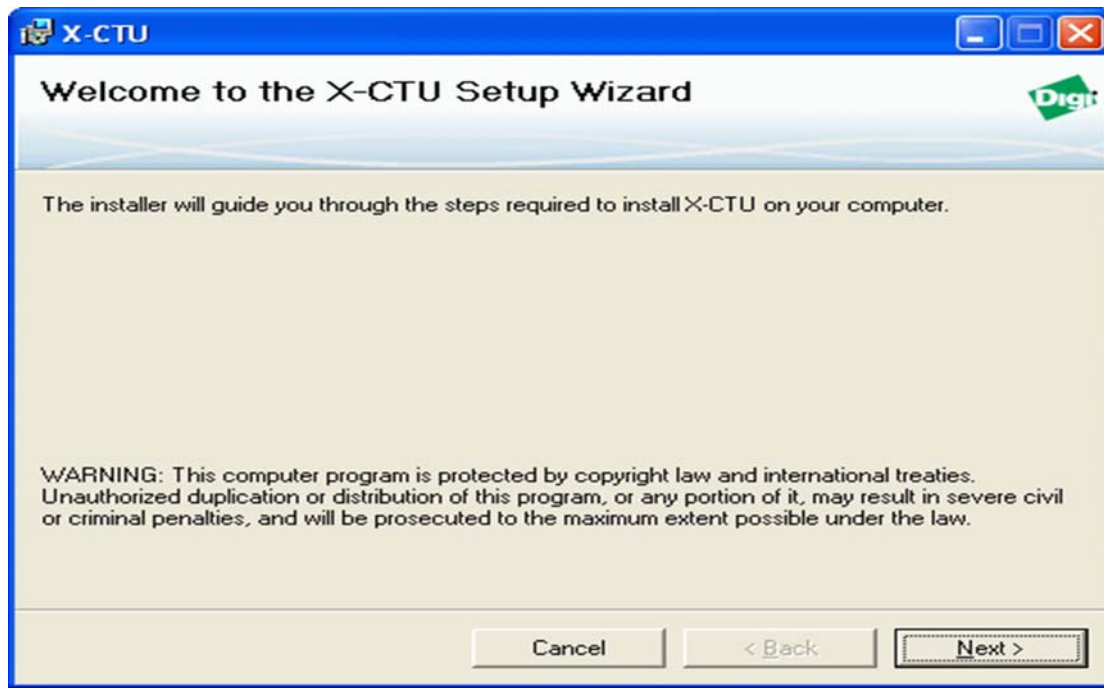


24V DC from power supply unit		For RS232 connection of PC
-------------------------------	--	----------------------------

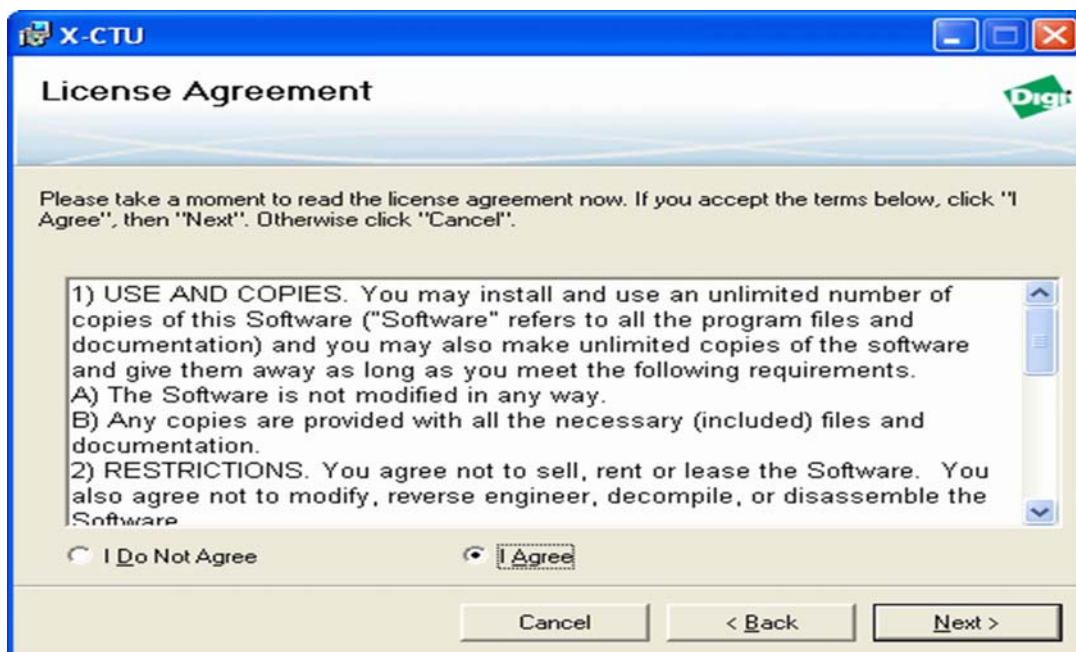
2.6.3 Programming the Wireless Module

To program the module, start the program file "xctu.exe" that can be found in the "SKOV Wireless" directory on the provided disc.

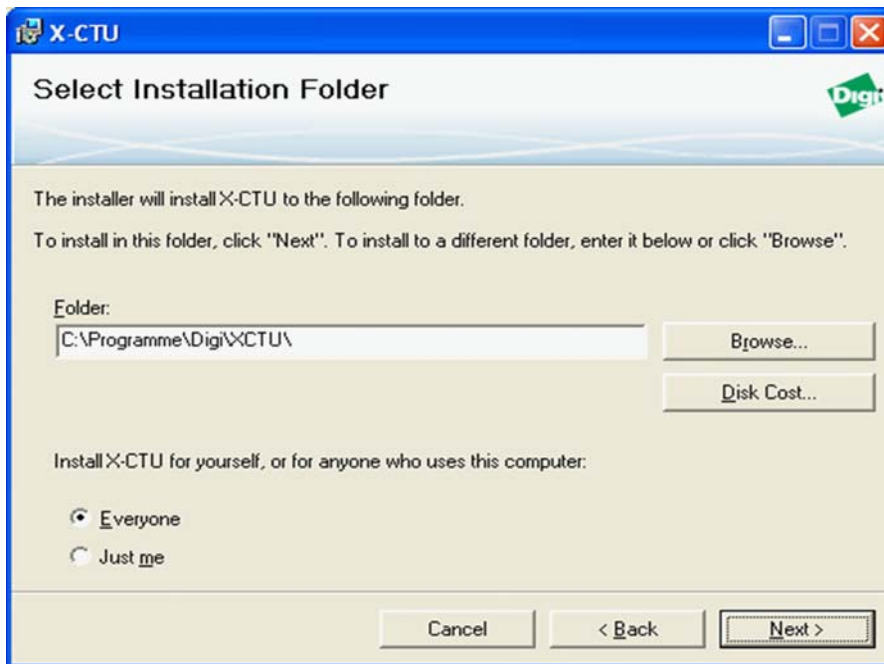
Upon the first start-up, the program is automatically installed:



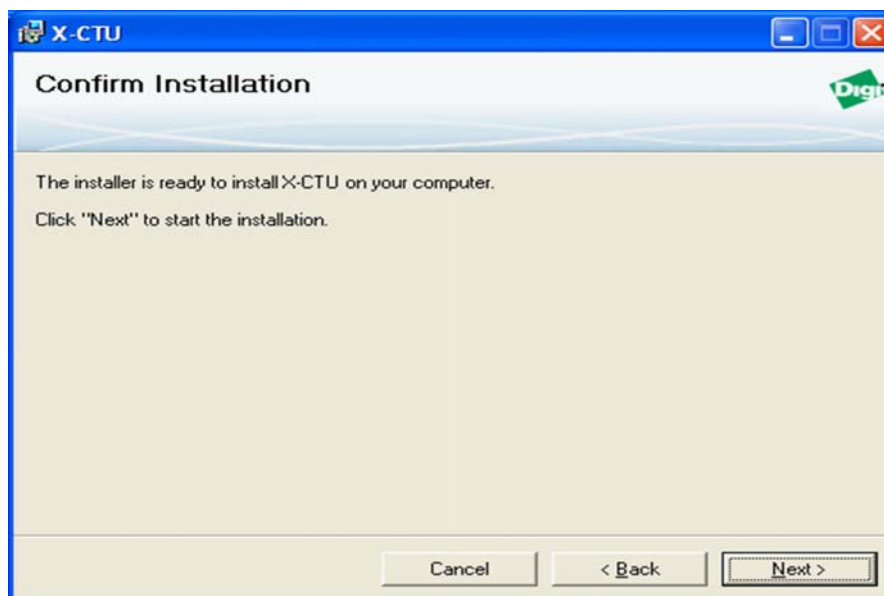
Click "Next" !



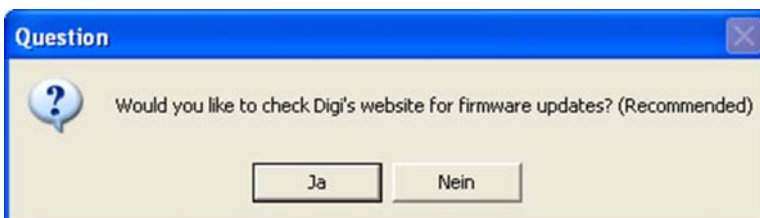
Click "I Agree" and "Next" !



Click "Next" !



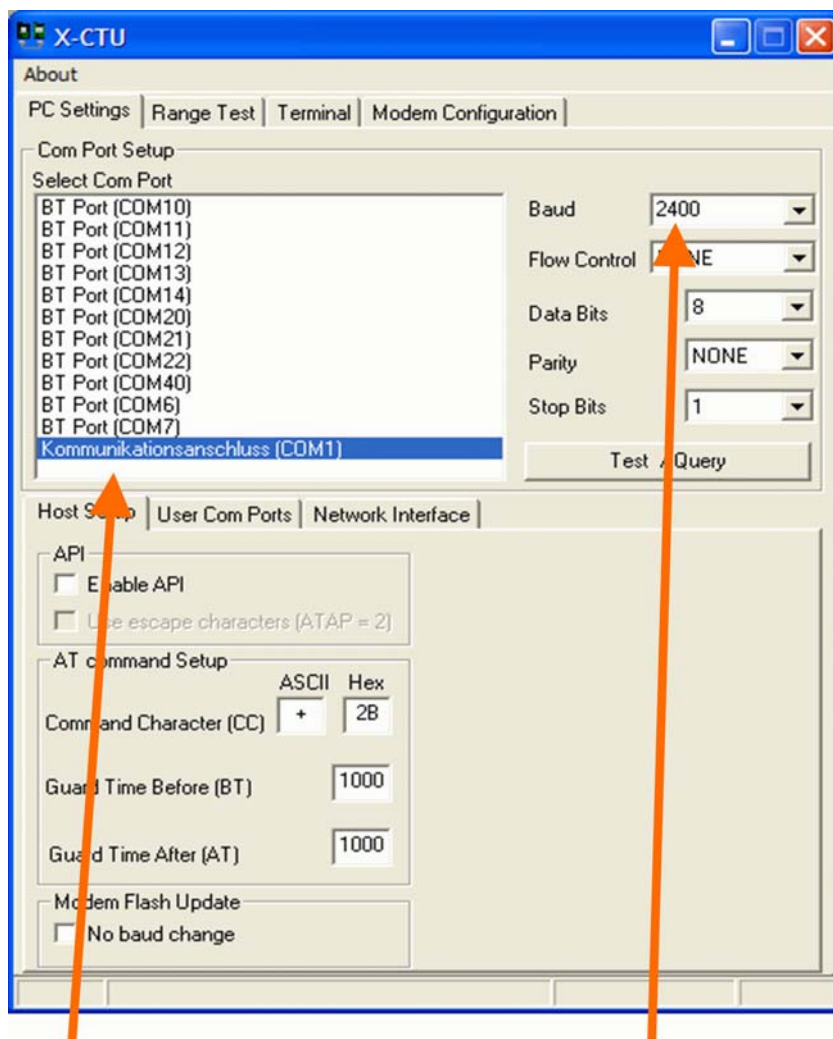
Click "Next" !



Click „NEIN“ !

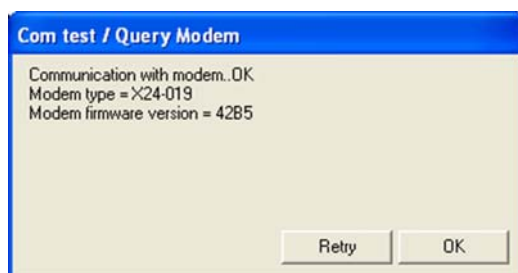
The program X-CTU is now being installed and will create a shortcut on the desktop of your PC.

You can now start the program X-CTU directly from the desktop of your PC, the following screen will open:



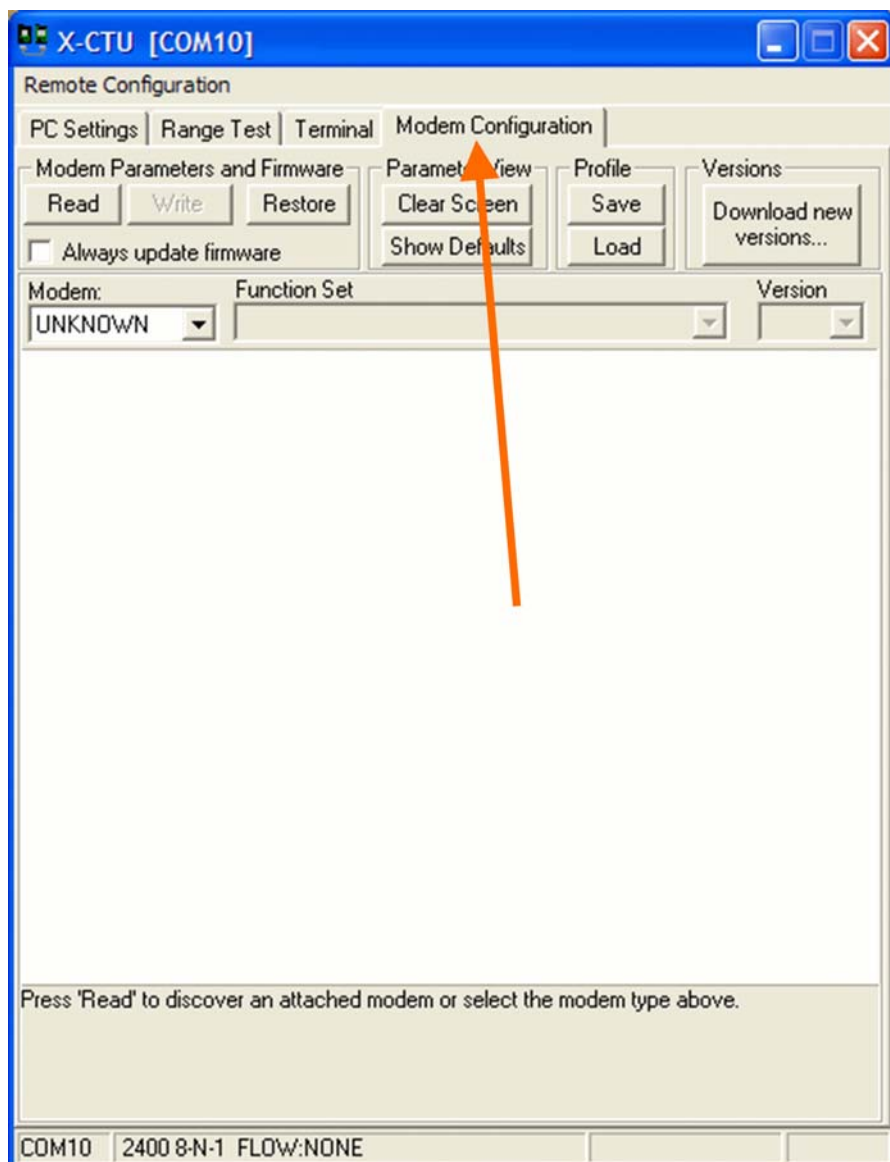
Interface at PC, please select		Default setting: Before 2011 ... 2400 Bd As of 2011 ... 19200 Bd
-----------------------------------	--	--

The default setting for the wireless modules is either 2400 Bd or 19200 Bd. Select the interface and click "Test/Query".



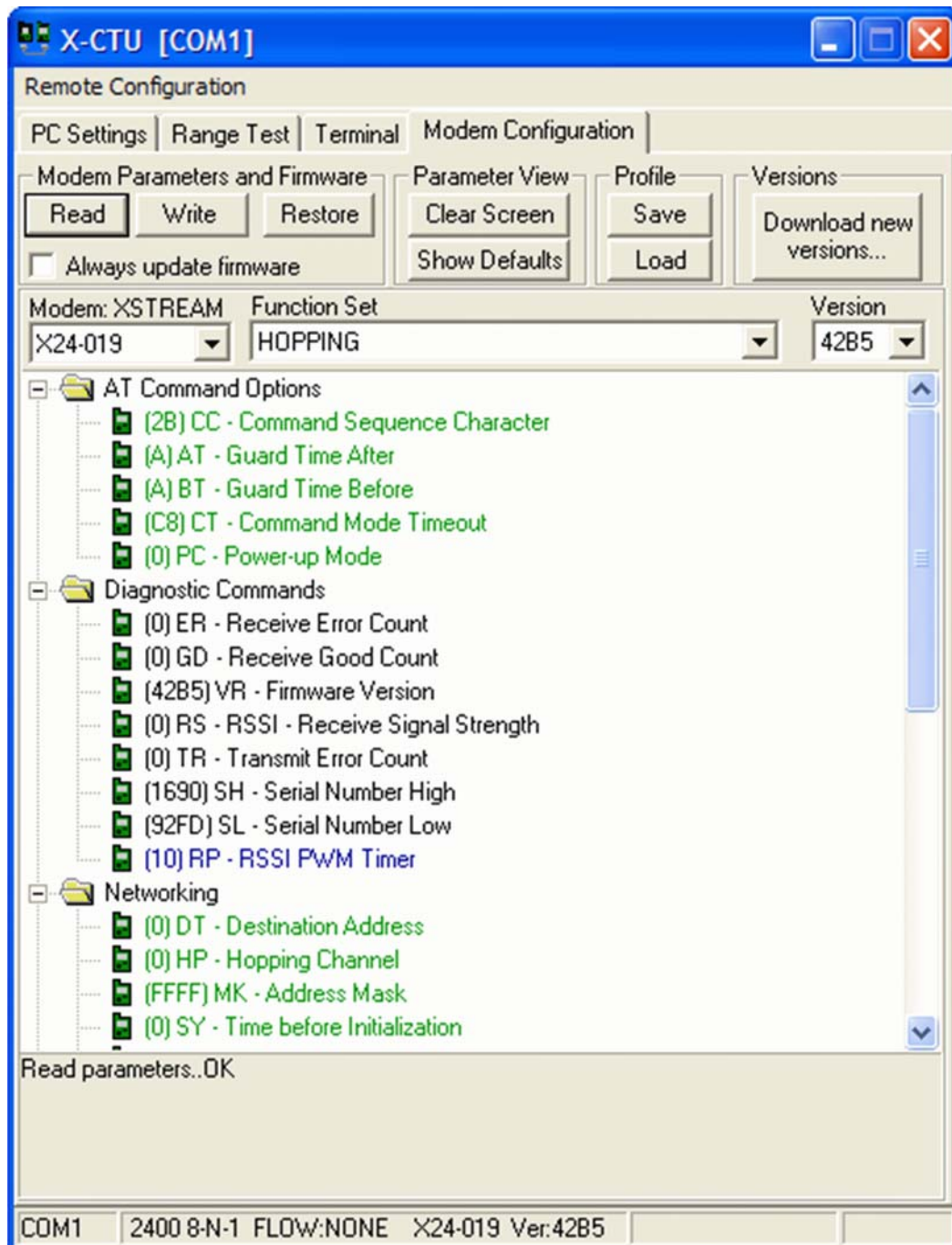
The connection to the wireless module is checked, the result is then displayed on the screen.

To read out the active configuration of the wireless module click "Modem Configuration"....



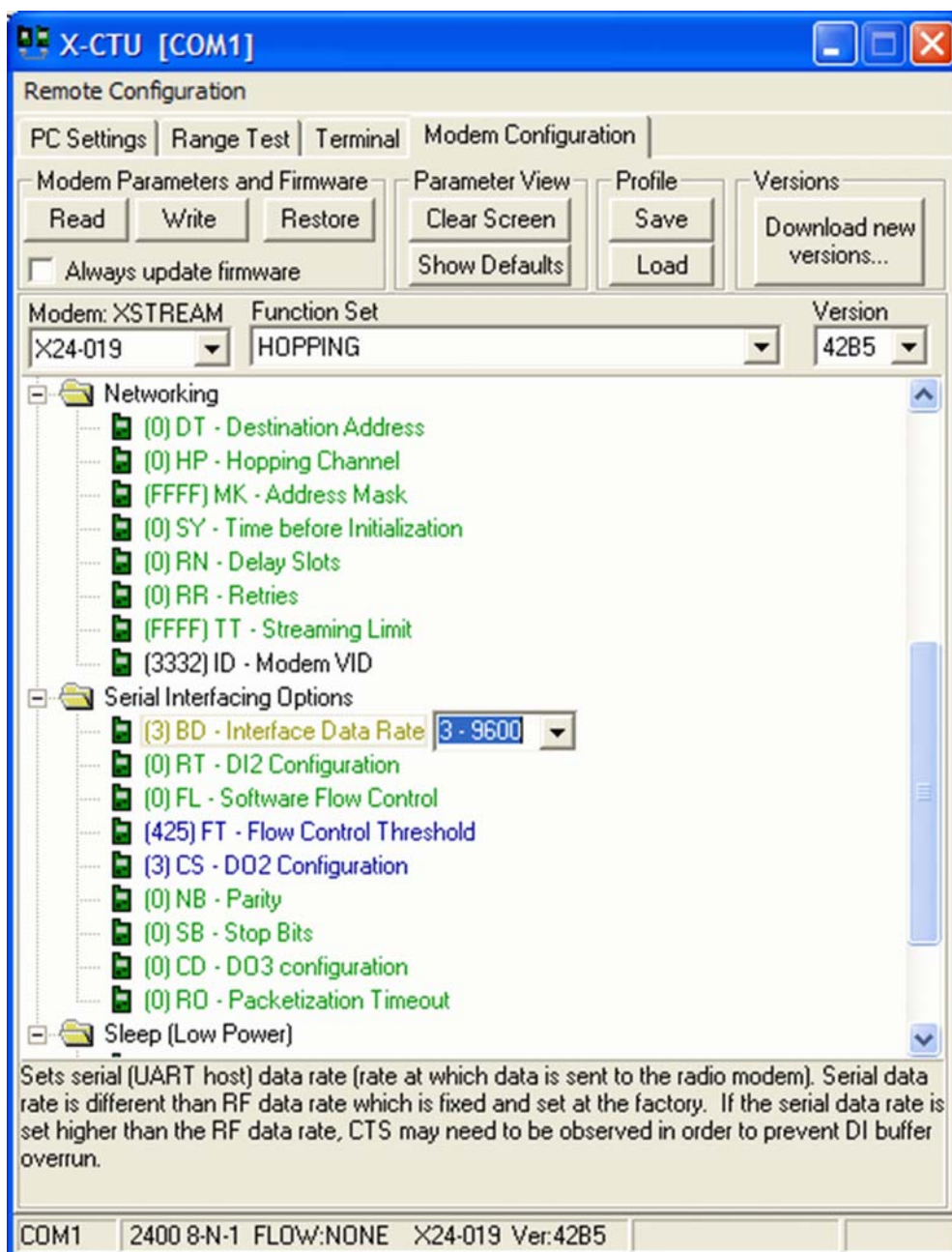
... and then "Read".

The current settings of the wireless module are now displayed:

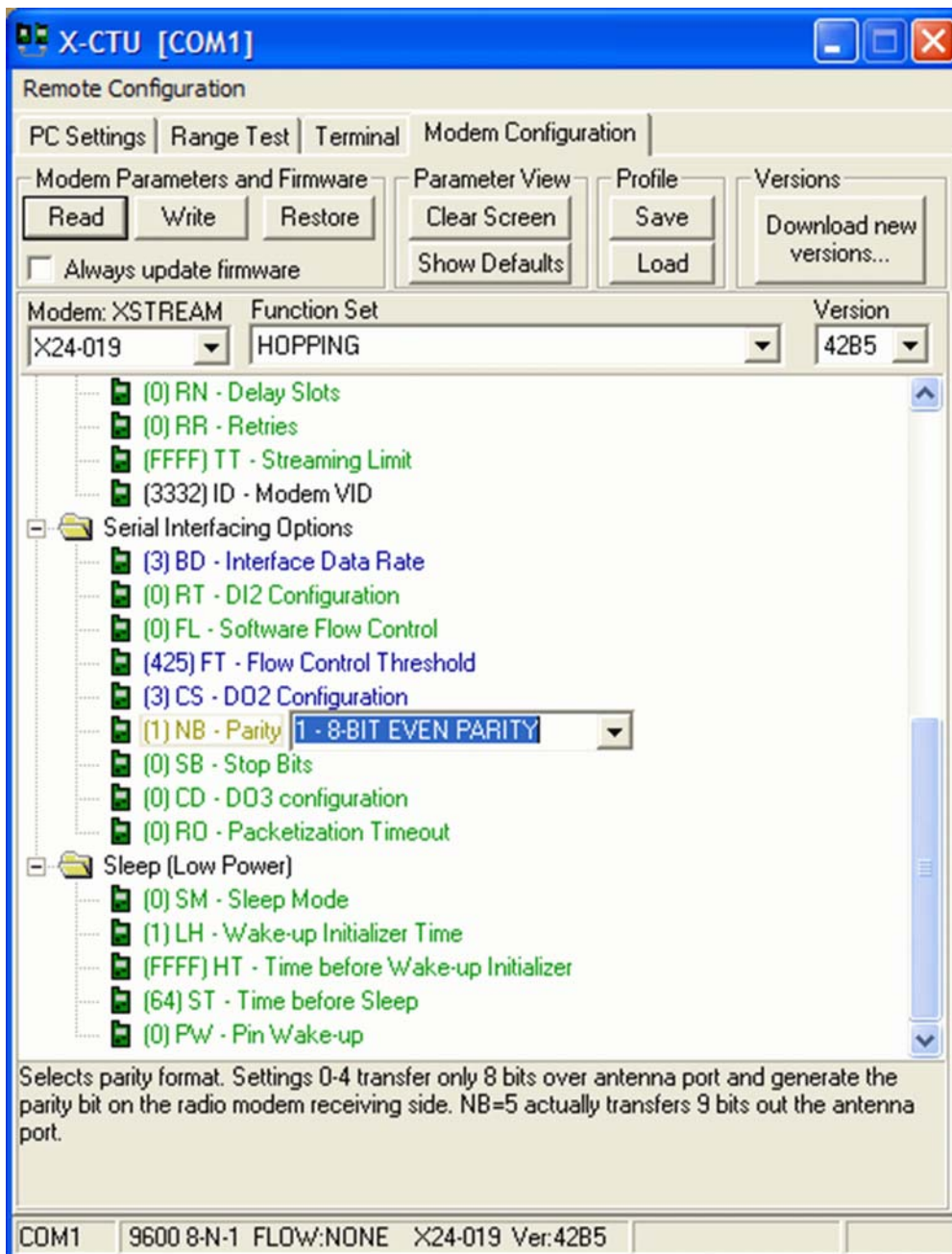


By default, the module is configured for 2400 Bd (or 19200 Bd) , no Parity. For SiloCheck it has to be reconfigured for 9600 Bd, Even Parity.

Reset the value "BD-Interface Data Rate" in the lower part of the list to "9600".



The reset the value "NB-Parity" to "8-bit EVEN PARITY".



The changed configuration information then has to be transferred to the module by a click on "Write". This terminates the configuration.

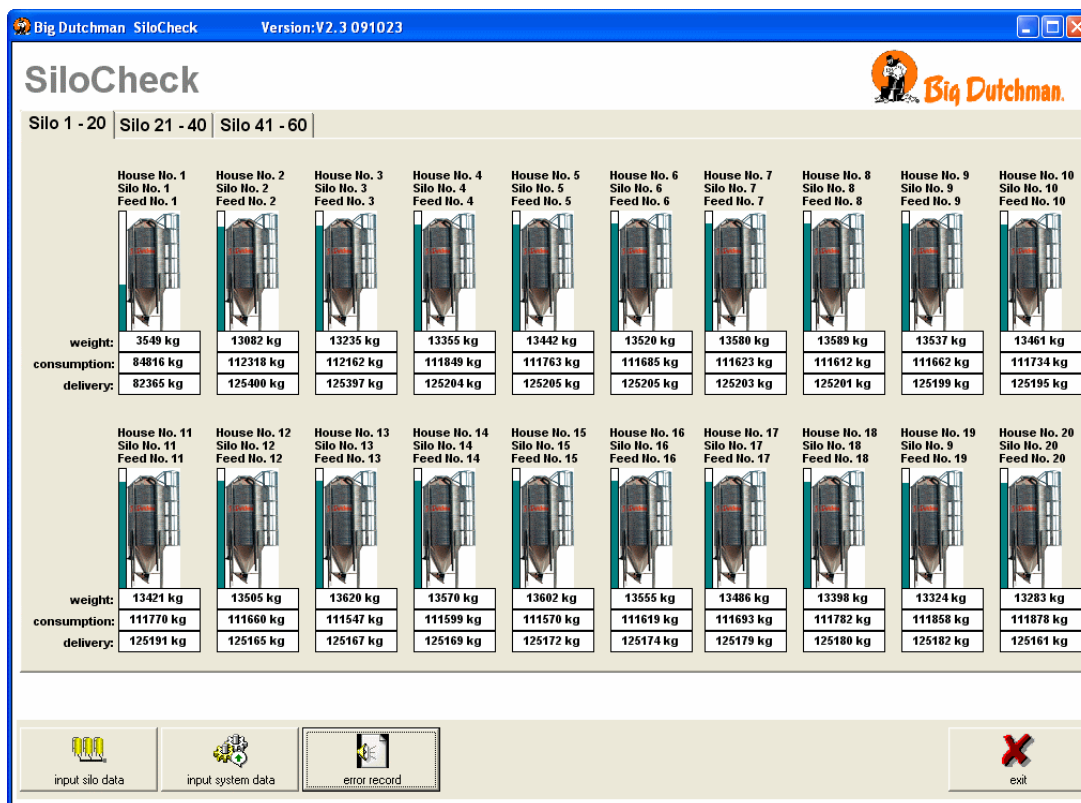


NOTE:

Re-set the two jumpers to their original position (far left).
Insert the plug "Enable 485" again.

3 The main screen

20 silos per screen tab are shown in the main screen.



The following data is displayed for each other silos, up to a maximum of 60:

- the fill level symbol (silo icon)
- the name of the silo (house no.)
- the number of the silo
- the feed name
- the weight of the silo (current content)
- the consumption of the silo
- the delivery to the silo.

If a silo drops below the minimum silo content then the appropriate page is flashing and an error message is displayed in the lower part of the screen.

4 Silo data



The data for each silo can be displayed by clicking on the silo icon. The following screen opens

silo data

silo no.: 1

enabled: ☒

name: House No. 1 ; Silo No. 1 ; Feed No. 1

min. content: kg

max. content: kg

last delivery: kg

date of last delivery:

sum of all deliveries: kg

consumption: kg

adjust weighing system

set tare

save and exit

4.1 Enabled

For an enabled silo, the current silo content in kilograms is displayed in the main screen as well as the consumption and deliveries.

enabled silo	non-enabled silo

4.2 Name

The house no., silo no. and feed no. are entered in this line.

To change the designations for house no., silo no. and feed no., as well as the values for "min. content" and "max. content", you must click on "input silo data" in the main screen. A table pops up in which you can change the appropriate values for each silo.

4.3 Minimum content

The minimum silo content is displayed in this line. If the minimum content of the silo is undershot, the fill level display switches from green to red.

If the entered minimum content of the silo is undershot,

- the fill level display switches from green to red.
- on the main screen the appropriate page is flashing
- an error message is displayed in the lower part of the screen
- a minimized SiloCheck program window will pop up
 - see chapter "Pop up on min silo content", page 35

To change the designations for house no., silo no. and feed no., as well as the values for "min. content" and "max. content", you must click on "input silo data" in the main screen. A table pops up in which you can change the appropriate values for each silo.

4.4 Maximum content

The maximum content of the silo is required to correctly display the weight as well as for the graphic display of the filling level.

To change the designations for house no., silo no. and feed no., as well as the values for "min. content" and "max. content", you must click on "input silo data" in the main screen. A table pops up in which you can change the appropriate values for each silo.

4.5 Last delivery

This displays the feed volume filled into the silo at the last delivery. The delivery volume is only registered when the "determine consumption" field is active in the system data.

see chapter "Delivery/Consumption history", page 32

4.6 Date of last delivery

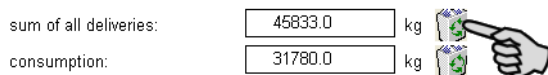
Displays when the last feed delivery was registered. The date of the last delivery is only registered when the "determine consumption" field is active in the system data.

see chapter "Delivery/Consumption history", page 32

4.7 Sum of all deliveries

This is the amount of all deliveries that have been registered since the last time this value was cleared. The sum of all deliveries is only registered when the "determine consumption" field is active in the system data.

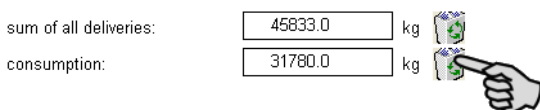
Click on the waste basket to delete (clear) the sum of all deliveries.



You can also delete the sum of all deliveries by double-clicking on the "delivery" field in the main screen.

4.8 Consumption

The previous total feed consumption is displayed here. The feed consumption is the sum of all deliveries minus the current content for the silo. The consumption is only registered when the "determine consumption" field is active in the system data. Click on the waste basket to delete (clear) the consumption.



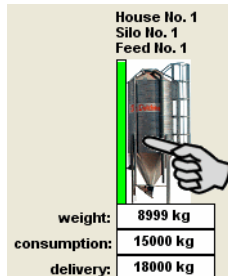
You can also delete the consumption by double-clicking on the "consumption" field in the main screen.

4.9 Adjust weighing system

The weighing systems of the silo must be adjusted just once during initial startup of the user interface.

To do this, proceed as follows:

1. In the main screen, click on the silo whose weighing system is to be adjusted.



2. Click on the "silo data" window on "adjust weighing system"

silo data

silo no.: 1

enabled: ☒

name: House No. 1 ; Silo No. 1 ; Feed No. 1

min. content: 500.0 kg

max. content: 9000.0 kg

last delivery: 9000.0 kg

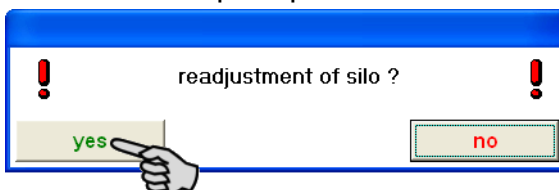
date of last delivery: 01.09.2009 10:00:4

sum of all deliveries: 45110.0 kg

consumption: 42148.0 kg

adjust weighing system set tare save and exit

3. Confirm in the prompt box



4. The following window opens:

adjustment of weighing system

silo no.: 1 **House No. 1**
Silo No. 1
Feed No. 1

actual weight:	0.002 kg	binary 119388.000
----------------	----------	----------------------

1. weight (0kg)	0	binary ???	 start
		0%	

2. weight (kg)	0	binary ???	 start
		0%	

 calculation  exit  save and exit

5. If the silo is empty, leave "0" in the "1. weight" box. If you know the weight of the current silo content then enter this weight in the "1. weight" box.
6. Click on "start" (the green status bar must reach 100%)

adjustment of weighing system

silo no.: 1 **House No. 1**
Silo No. 1
Feed No. 1

actual weight:	0.001 kg	binary 119248.000
----------------	----------	----------------------

1. weight (0kg)	0	binary 29814.550	 start
		0%	

2. weight (kg)	0	binary ???	 start
		0%	

 calculation  exit  save and exit



7. Load the silo with a known weight and enter this weight in the "2. weight" box (e.g. 100kg)

adjustment of weighing system

silo no.: 1 House No. 1
Silo No. 1
Feed No. 1

actual weight:	0.002 kg	binary 119284.000
1. weight (0kg)	0	binary 29814.550
2. weight (kg)	100	binary ???

0% 0% 0%

start start start

calculation exit save and exit

8. Click on "start" (the green status bar must reach 100%)

adjustment of weighing system

silo no.: 1 House No. 1
Silo No. 1
Feed No. 1

actual weight:	0.002 kg	binary 119316.000
1. weight (0kg)	0	binary 29814.550
2. weight (kg)	100	binary 29830.400

0% 0% 0%

start start start

calculation exit save and exit

9. Click on "calculation"

adjustment of weighing system

silo no.: 1 **House No. 1**
Silo No. 1
Feed No. 1

actual weight:	0.002 kg	binary 119316.000
----------------	----------	----------------------

1. weight (0kg)	0	binary 29814.550	 start
0%			

2. weight (kg)	100	binary 29830.400	 start
0%			

 calculation  exit  save and exit

10. The weighing system is now adjusted. Click on "save and exit" to accept the entries.

adjustment of weighing system

silo no.: 1 **House No. 1**
Silo No. 1
Feed No. 1

actual weight:	0.002 kg	binary 119316.000
----------------	----------	----------------------

1. weight (0kg)	0	binary 29814.550	 start
0%			

2. weight (kg)	100	binary 29830.400	 start
0%			

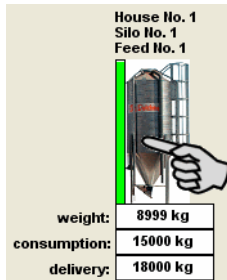
 calculation  exit  save and exit

if you do **not** want to accept the entries then click on "EXIT". If you click on "EXIT", the weighing system is not adjusted!

4.10 Taring

The scale is set to zero using the "tare" function.

1. In the main screen, click on the silo whose weighing system is to be tared.



2. Click on the "silo data" window on "set tare"

3. Confirm in the prompt box



4. The following window opens:

5. If the silo is empty, leave "0" in the "content (kg)" box. If the silo is not empty and the weight of the current silo content is known, then enter this weight in the "actual weight" box.

set tare

silo no.: 1 **House No. 1**
Silo No. 1
Feed No. 1

actual weight: 0.006 kg
binary 120360.000

contend (kg) 0

start

calculation **exit** **save and exit**

6. Click on "start" (the green status bar must reach 100%)

set tare

silo no.: 1 **House No. 1**
Silo No. 1
Feed No. 1

actual weight: 0.006 kg
binary 120344.000

contend (kg) 0

start

calculation **exit** **save and exit**

7. Click on "calculation"

set tare

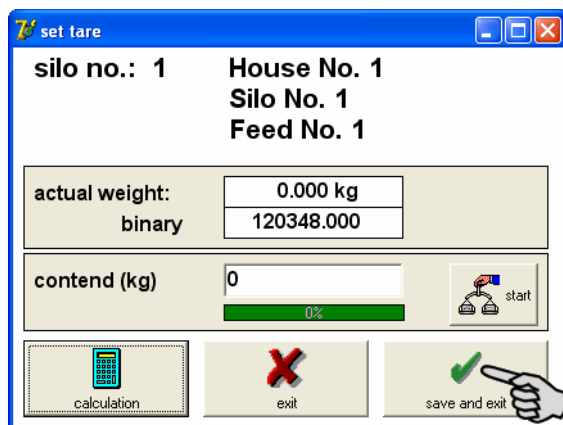
silo no.: 1 **House No. 1**
Silo No. 1
Feed No. 1

actual weight: 0.000 kg
binary 120348.000

contend (kg) 0

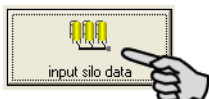
calculation **exit** **save and exit**

8. The weighing system is now adjusted. Click on "save and exit" to accept the entries.



if you do **not** want to accept the entries then click on "EXIT". If you click on "EXIT", the weighing system is not tared!

4.11 Input silo data



When you click on the "input silo data" icon in the main screen, the following window is displayed:

input silo data

silo no.	name of barn	silo name	feed name	max. content (kg)	min. content (kg)	average no.	house no.	alarmrel.
1	House No. 1	Silo No. 1	Feed No. 1	9000.0	500.0	1	0	0
2	House No. 2	Silo No. 2	Feed No. 2	15000.0	500.0	1	0	0
3	House No. 3	Silo No. 3	Feed No. 3	15000.0	500.0	1	0	0
4	House No. 4	Silo No. 4	Feed No. 4	15000.0	500.0	1	0	0
5	House No. 5	Silo No. 5	Feed No. 5	15000.0	500.0	1	0	0
6	House No. 6	Silo No. 6	Feed No. 6	15000.0	500.0	1	0	0
7	House No. 7	Silo No. 7	Feed No. 7	15000.0	500.0	1	0	0
8	House No. 8	Silo No. 8	Feed No. 8	15000.0	500.0	1	0	0
9	House No. 9	Silo No. 9	Feed No. 9	15000.0	500.0	1	0	0
10	House No. 10	Silo No. 10	Feed No. 10	15000.0	500.0	1	0	0
11	House No. 11	Silo No. 11	Feed No. 11	15000.0	500.0	1	0	0
12	House No. 12	Silo No. 12	Feed No. 12	15000.0	500.0	1	0	0
13	House No. 13	Silo No. 13	Feed No. 13	15000.0	500.0	1	0	0
14	House No. 14	Silo No. 14	Feed No. 14	15000.0	500.0	1	0	0
15	House No. 15	Silo No. 15	Feed No. 15	15000.0	500.0	1	0	0
16	House No. 16	Silo No. 16	Feed No. 16	15000.0	500.0	1	0	0
17	House No. 17	Silo No. 17	Feed No. 17	15000.0	500.0	1	0	0
18	House No. 18	Silo No. 18	Feed No. 18	15000.0	500.0	1	0	0
19	House No. 19	Silo No. 9	Feed No. 19	15000.0	500.0	1	0	0
20	House No. 20	Silo No. 20	Feed No. 20	15000.0	500.0	1	0	0
21	House Nr. 21	Silo Nr. 21	Feed Nr. 21	15000.0	500.0	1	0	0
22	House Nr. 22	Silo Nr. 22	Feed Nr. 22	15000.0	500.0	1	0	0
23	House Nr. 23	Silo Nr. 23	Feed Nr. 23	15000.0	500.0	1	0	0
24	House Nr. 24	Silo Nr. 24	Feed Nr. 24	15000.0	500.0	1	0	0
25	House Nr. 25	Silo Nr. 25	Feed Nr. 25	15000.0	500.0	1	0	0
26	House Nr. 26	Silo Nr. 26	Feed Nr. 26	15000.0	500.0	1	0	0
27	House Nr. 27	Silo Nr. 27	Feed Nr. 27	15000.0	500.0	1	0	0
28	House Nr. 28	Silo Nr. 28	Feed Nr. 28	15000.0	500.0	1	0	0
29	House Nr. 29	Silo Nr. 29	Feed Nr. 29	15000.0	500.0	1	0	0
30	House Nr. 30	Silo Nr. 30	Feed Nr. 30	15000.0	500.0	1	0	0
31	House Nr. 31	Silo Nr. 31	Feed Nr. 31	15000.0	500.0	1	0	0
32	House Nr. 32	Silo Nr. 32	Feed Nr. 32	15000.0	500.0	1	0	0

exit save and exit

4.11.1 Name of barn

The barn (house) name is displayed in the main screen above the respective silo.

4.11.2 Silo name

The silo name is displayed in the main screen above the respective silo.

4.11.3 Feed name

The feed name is displayed in the main screen above the respective silo.

4.11.4 Max. content (kg)

The maximum content of the silo is required to correctly display the weight as well as for the graphic display of the filling level.

4.11.5 Min. content (kg)

If the entered minimum content of the silo is undershot,

- the fill level display switches from green to red.
- on the main screen the appropriate page is flashing
- an error message is displayed in the lower part of the screen
- a minimized SiloCheck program window will pop up
 - see chapter "Pop up on min silo content", page 35

4.11.6 Average no.

Here, enter the number of measurements used to calculate the mean (average) value. This value is only required if there are weight variations by e.g. wind. No more than 5 measurements should be used to calculate the mean value as the weighing process would otherwise take too much time.

4.11.7 House no.

a house number can be assigned to each silo.

4.11.8 Alarm relay on

Enter 1 (yes) here to enable an alarm relay if there is an error message. The requirement for this is that an alarm relay exists and that the appropriate serial interface is set in the system data.

4.12 Delivery/Consumption history

All delivery and consumption data are automatically stored in a csv-data file. (normally C:\program files\SiloCheck)

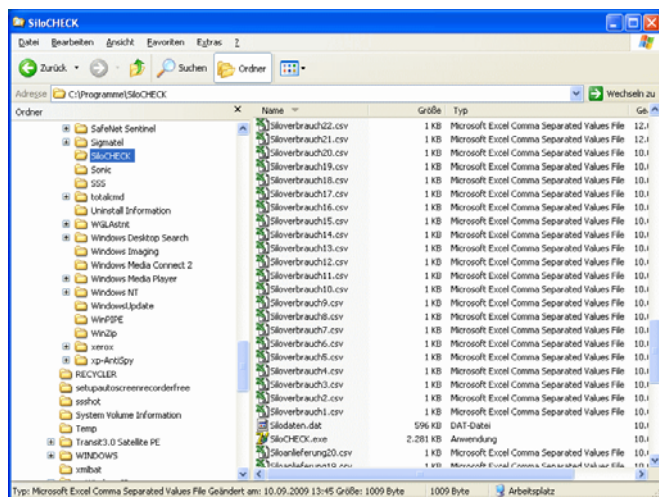


Figure 4-1: SiloCheck program file

Open the csv-file e.g. with Excel:

	A	B	C	D	E	F	G
1	10.08.2009	Maststall 1	Silo Nr. 1	Vormast	12356		
2	11.08.2009	Maststall 1	Silo Nr. 1	Vormast	13566		
3	14.08.2009	Maststall 1	Silo Nr. 1	Vormast	12587		
4	01.09.2009	Maststall 1	Silo Nr. 1	Vormast	11447		
5							
6							
7							
8							
9							
10							
11							
12							

Figure 4-2: Consumption silo 1

5 System data

Some data must be entered once in the "system data" menu when installing the program.



When you click on the "input system data" icon in the main screen, the following window is displayed:

input system data	
country: England	event protocol enabled: ☐ pop up on min. silo content: ☒
Com1 enabled: ☒ Com2 enabled: ☐ Com3 enabled: ☐ Com4 enabled: ☐ Com5 enabled: ☐ Com6 enabled: ☐ Com7 enabled: ☐ Com8 enabled: ☐ Com9 enabled: ☐ Com10 enabled: ☐ Com alarm: 1	Tab Text 1: Silo 1 - 20 2: Silo 21 - 40 3: Silo 41 - 60 Tab flashing on alarm: ☒
	determine consumption as from (kg): 1 shift to consumption/delivery as from (kg): 20 determine consumption: ☒
init of weighing boxes input box data programming of boxes	import/export system data save and exit

5.1 Country

Selecting the respective country changes the user interface to the appropriate language.

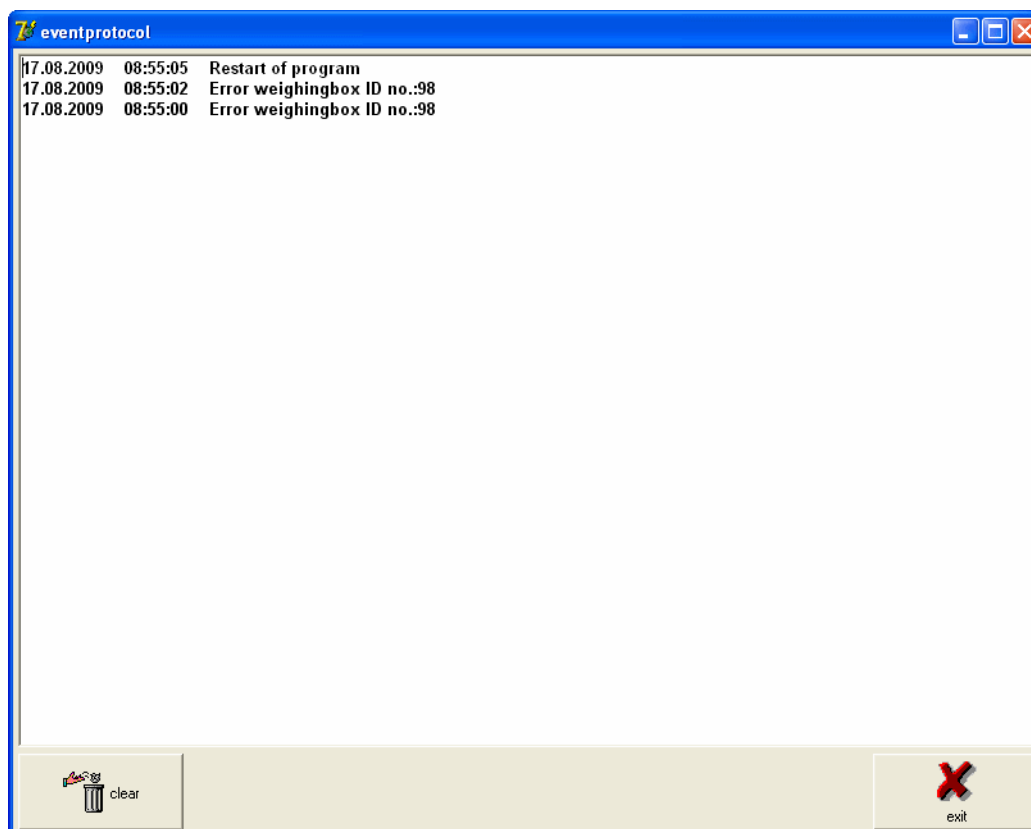
5.2 Serial interface

Here, the program indicates the serial interfaces (ports) of the on which the PC SiloCheck program is installed. A maximum of 31 weighing boxes can be connected to a serial interface. If you want to connect more than 31 weighing boxes to a PC then you need an additional serial interface. If the Silocheck system e.g., is comprised of 40 weighing boxes, then weighing boxes 1 - 31 are connected to Com1 and weighing boxes 32-40 are connected to Com2.

Enter the port to be used for alarming in the "Com Alarm" box.

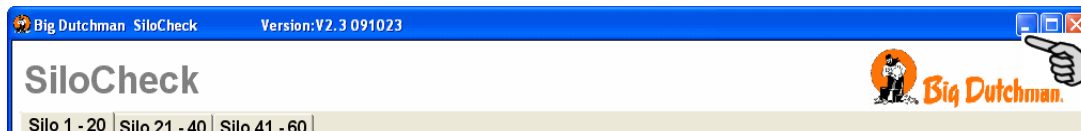
5.3 Event protocol enabled

If this function is active then the "events" icon is displayed in the main screen. The event protocol displays the events that have occurred. This function is used mainly for service and can be disabled during normal operation.



5.4 Pop up on min silo content

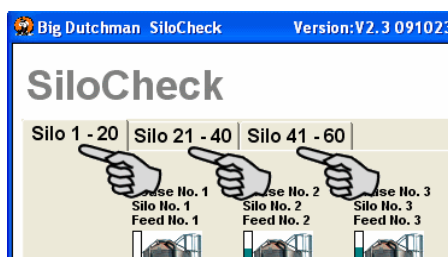
You can minimise the SiloCheck program window if you want to use the PC for something else.



In the minimized state, the SiloCheck program appears only in the windows taskbar. Enable the "Pop up on min. silo content" checkbox to once again maximize the window if a silo undershoots the minimum silo content.

5.5 Tab text

The tab text is displayed in the top section of the main screen. You must re-start the program to make text changes effective.



5.6 Tab flashing on alarm

Enable this box if the appropriate page in the main screen is to flash in case of an alarm.

5.7 Determine consumption as from (kg)

SiloCheck automatically determines a delivery or the rates of consumption based on the positive and negative changes in weight. Enter the weight steps used for the determination in the "determine consumption as from (kg)" box. If, for instance, you set this to 1kg then all weight changes less than one kilogramme are ignored.

5.8 Shift to consumption/delivery as from (kg)

If there is a positive weight change, then SiloCheck assumes a delivery is in progress. In the "shift to consumption/delivery as from (kg)" box, enter the size that the positive change in weight must be to detect a delivery.

5.9 Determine consumption

Enable this box to use automatic determination of consumption and delivery.

5.10 Init of weighing boxes

Click on this button to initialise the scale. This thereby sets some basic settings for the weighing boxes. This should be done once after the commissioning.



5.11 Input box data



Click on "input box data" to open the window and input the weighing box technical data.

technical data of weighing boxes

box no.	silo no.	network ID	COM port	tare	gain	no. of weightbars	CAN ID	CAN Device
1	1	1	1	29734.2500	0.000018	4	0	0
2	2	2	1	29734.2500	0.000018	4	0	0
3	3	3	1	29734.2500	0.000018	4	0	0
4	4	4	1	29734.2500	0.000018	4	0	0
5	5	5	1	29734.2500	0.000018	4	0	0
6	6	6	1	29734.2500	0.000018	4	0	0
7	7	7	1	29734.2500	0.000018	4	0	0
8	8	8	1	29734.2500	0.000018	4	0	0
9	9	9	1	29734.2500	0.000018	4	0	0
10	10	10	1	29734.2500	0.000018	4	0	0
11	11	11	1	29734.2500	0.000018	4	0	0
12	12	12	1	29734.2500	0.000018	4	0	0
13	13	13	1	29734.2500	0.000018	4	0	0
14	14	14	1	29734.2500	0.000018	4	0	0
15	15	15	1	29734.2500	0.000018	4	0	0
16	16	16	1	29734.2500	0.000018	4	0	0
17	17	17	1	29734.2500	0.000018	4	0	0
18	18	18	1	29734.2500	0.000018	4	0	0
19	19	19	1	29734.2500	0.000018	4	0	0
20	20	20	1	29734.2500	0.000018	4	0	0
21	21	21	1	29734.2500	0.000018	4	0	0
22	22	22	1	29734.2500	0.000018	4	0	0
23	0	0	0	0.0000	1.000000	3	0	0
24	0	0	0	0.0000	1.000000	3	0	0
25	0	0	0	0.0000	1.000000	3	0	0
26	0	0	0	0.0000	1.000000	3	0	0
27	0	0	0	0.0000	1.000000	3	0	0
28	0	0	0	0.0000	1.000000	3	0	0
29	0	0	0	0.0000	1.000000	3	0	0
30	0	0	0	0.0000	1.000000	3	0	0
31	0	0	0	0.0000	1.000000	3	0	0
32	0	0	0	0.0000	1.000000	3	0	0

exit save and exit

5.11.1 Network ID

Input the address of the individual weighing boxes in the "Network ID" box. Each weighing box requires a unique ID per COM port. A maximum of 31 weighing boxes can be connected to one Com port. A weighing box with the network ID = 0 is disabled. (see chapter "Box programming", page 38.)



5.11.2 COM Port

This is the serial port of the PC (Com1 to Com10) at which the adapter for the connection to the weighing electronics is connected. A maximum of 31 weighing boxes can be connected to one Com port. (see chapter "Box programming", page 38.)

5.11.3 Tare

The tare is automatically determined during weight adjustment or when taring the silo.

5.11.4 Gain

Gain is automatically determined during weight adjustment.

5.11.5 No. of weight bars

Here, enter the number of weight bars connected to the corresponding weighing box.

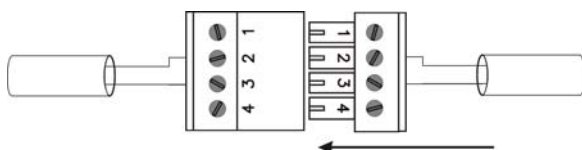


If you change the number of weight bars, you must readjust the weighing system.

5.12 Box programming

If several weighing boxes are connected to the SiloCheck system by the RS485 network then each weighing box required a unique ID number. As the weighing boxes might have identical ID numbers when delivered, you must first assign a unique ID to each box. To program the weighing boxes, you must connect the appropriate box to the RS485 network. During programming, you must disconnect all other boxes from the network.

You can disconnect single subscribers from the bus by plugging the two BUS connection plugs of the weighing box together.



Once only one box remains connected to the network, carry out the following steps

1. Click on "programming of boxes"

input system data	
country: England	eventprotocol enabled: ☒ demo: ☐ pop up on min. silo contend: ☒
Com1 enabled: ☒ Com2 enabled: ☐ Com3 enabled: ☐ Com4 enabled: ☐ Com5 enabled: ☐ Com6 enabled: ☐ Com7 enabled: ☐ Com8 enabled: ☐ Com9 enabled: ☐ Com10 enabled: ☐ Com Alarm: 0	Tab Text 1: Silo 1 - 20 2: Silo 21 - 40 3: Silo 41 - 60 Tab flashing on Error: ☒
determinate consumption as from (kg): 1 shift to consumption/delivery as from (kg): 20 determinate consumption: ☒	
init of weighing boxes input boxdata programming of boxes	import/export systemdata save and exit

2. The following window opens:

3. Click on "searching box"

4. You can now see the ID of the connected box

5. Enter a different box ID (e.g. 2)

6. Click on "reprogramming"

programming of boxes

actual box ID:

communication port:

new box ID:

searching box

reprogramming

save and exit

7. Confirm in the prompt box

really reprogramming ?

yes

no

8. Click on "OK"

reprogramming OK

OK

9. Finally, click on "save and exit" to quit the screen.

programming of boxes

actual box ID:

communication port:

new box ID:

searching box

reprogramming

save and exit

10. Call up the box again:

input system data

country: England	eventprotocol enabled: ☒
	demo: ☐
	pop up on min. silo contend: ☒

Com1 enabled: ☒	Tab Text 1: Silo 1 - 20 2: Silo 21 - 40 3: Silo 41 - 60 Tab flashing on Error: ☒
Com2 enabled: ☐	
Com3 enabled: ☐	
Com4 enabled: ☐	
Com5 enabled: ☐	
Com6 enabled: ☐	
Com7 enabled: ☐	
Com8 enabled: ☐	
Com9 enabled: ☐	
Com10 enabled: ☐	
Com Alarm: 0	determinate consumption as from (kg): 1 shift to consumption/delivery as from (kg): 20 determinate consumption: ☒

init of weighing boxes import/export systemdata

input boxdata

programming of boxes 

 save and exit

11. Click on "searching box"

programming of boxes

actual box ID:

communication port:

new box ID:



searching box

reprogramming

 save and exit

12. The box now has ID 2

programming of boxes

actual box ID: 

communication port:

new box ID:

searching box

reprogramming

 save and exit

13. Proceed identically for all boxes until each box has a unique address.

5.13 Import/export system data

Using this function, you can either save your data directly by an export, or you can import already existing data.



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