

MS Optima box

1509679



MS Optima box

Introduction

This manual provides instructions on the installation, use and maintenance of the MS Optima – to ensure correct installation and operation. You should only perform installation after carefully reading and understanding this manual.

Improper use of the installation could cause danger or damage to the installation or other goods and materials. Therefore, only use the installation in technically perfect condition, and only for the purpose for which it was designed.

No technical changes to the installation are permitted, unless the manufacturer has given express written permission. Without the abovementioned permission, the manufacturer's guarantee becomes void.

This guide contains information regarding operation, maintenance and tracing and troubleshooting faults. You should be aware of all relevant information in this guide before installing or using the system. This is important for averting material damage and personal injury. Careful and precise assembly results in good operation.

In the design of this installation, MS Schippers has given special attention to safety during installation, operation and maintenance. It is moreover the user's responsibility to observe the safety regulations during use.

MS Optima box

The MS Optima box is an intelligent automatic nutrient dosing apparatus that your dairy cattle can access freely. In this way, the MS Optima box offers you the possibility to optimize your ration. The MS Optima box is the easiest way to provide extra nutrients without extra work!

The practical advantages:

- Fully automatic dosing – thus labour-free nutrient supplement provision
- Free access means zero stress
- Easy to install in existing dairy cattle housing
- Maintenance free

Research has shown that more than 30% of the early lactating dairy cows have (sub) clinical ketosis. Individual liquid nutrient administration is labour intensive and often results in stress, resulting in loss of milk yield.

That is a shame, because "startup" broadly determines the success of a lactation. Continuous monitoring of the cows' access to the apparatus also provides a wealth of information that you can use to improve cow traffic, in respect to their use of the MS Optima box.

Provisions

MS Schippers assumes no responsibility for errors contained in this document or for any direct or indirect damages or consequential damages of any nature whatsoever arising from or in connection with provision, function or use of this document.

MS Schippers reserves the right at any time, without prior notice, to make changes to the structure of the MS Optima box or the information in the manual, without any resulting obligation to apply these changes to products already delivered.

In case of misuse, the manufacturer's guarantee and responsibility becomes void.

MS Optima-online manual

This guide provides practical tips on how to implement "startup" and the necessary animal related tasks in an easy way. The manual also shows how you can consult various lists and print them.

If you still have any questions, please consult your MS Optima box contact person.

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1. A brief description of the MS Optima box

When starting to use the MS Optima box, we recommend that you stick to the following sequence of actions.

- | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|
| 1. Log in to www.schippers.nl/ www.schippers.be/ www.schippers.dk/ www.schippers-ms.de | Chapter 6.1. | page 16 |
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How does the software work?

Once your account is set up, the data are retrieved from the national database. This data is used to determine a selection of the cattle that are allowed MS KetoProtect Plus.

Between 00:00 and 01:00, the feed list is exchanged between the MS Optima software and the box itself.

This means that any cows that have calved can take MS KetoProtect Plus from the MS Optima box after one night. The set lists are regularly updated. The creation time of the last list is shown on the set list. In this way, you can follow cow traffic easily.

For a quick and easy start, it is essential to stick to the correct sequence of actions.

2. Animal recognition

There are several methods a farmer can use for animal recognition:

1. Using a remarking ear tag set with a Jumbo male part and an HDX transponder female part, in the Netherlands
2. Electronic ear tags HDX (0409455RANGE) attached to the collar
3. Electronic ear tags based on animal ID numbers, in other countries
4. Electronic ear tags based on animal ID numbers, in Denmark
5. Existing HDX / FDX (ISO) transponders which can be read with a hand-held reader

A disadvantage of securing to the collar is that you cannot slide off the numbers or transponder afterwards. That means that you have to order a new transponder or cut it at the buckle when changing one.

2.1. Renumbering HDX electronic ear tags with "life" numbers, in the Netherlands

The electronic ear tags can be ordered through the MS Optima box software package (see section 6.5). For this, you order a complete set of a Jumbo male parts and an HDX transponder female part, imprinted with the animal ID number. See chapter 3 for information on changing electronic ear tags.



2.2. Attaching HDX electronic ear tags to the collar

You can order HDX electronic ear tags that attach to the collar with an incremental range of numbers (subsequent series) or following a specific number list.

You can order by sending an e-mail to export@msschippers.com. To order an incremental range, you must simply provide a start and end number and the article number (0409455 Range, MS Super Quick Transponder HDX Range). Do not forget to include male parts in your order. Note! These come in packages of 100 pieces! 0409852YEL-100, MS Tag Round + metal point, plain yellow

If your order is not for a sequential range, you should provide an Excel file, the description below will help you with that:

Open Excel and create a structure as described below.

	A	B
1	bedrukking transponder	transpondernummer
2	0001	9990000000000001
3	0012	9990000000000012
4	0115	9990000000000115
5	3333	9990000000003333
6	9999	999000000009999

The transponder imprint (that shows visually on the outside of the transponder) should be listed in column A. This must ALWAYS be a 4 digit. The transponder numbers should be listed in column B. You should use the following formula “=9990000000+ the number in A”. Please note that the complete number has “15 digits” in the cell. Extend this formula to each subsequent cell.

Send the Excel file to export@msschippers.com. Mentioning: 0409455 Range, MS Quick Super Transponder HDX Range Do not forget to include male parts in your order. Note! These come in packages of 100 pieces! 0409852YEL-100, MS Tag Round + metal point, plain yellow

Tip! Save the file. You will still have to use it to link the transponders with the animal ID numbers, see chapter 6.6.

In this way, you can also order a limited amount of numbers, which can be useful when, for example, the ear tag has come loose from the collar and you need to reapply one. Make sure that the transponder is punched through on the correct side of the collar (to the right as seen from the front of the animal – also see chapter 3). The minimum distances are 5 cm from the current transponder and about 5-10 centimetres from the buckle. This method ensures that the transponder comes close to the receiver and minimises risk of loss. You should first drill or punch a hole (e.g. with punching pliers) in the collar before pressing the transponder in, otherwise you not be able to get the ear tag transponder through the nylon/cotton material. We advise using an MS Tag Applicator Pro (0409302) when applying the numbers.



2.3. Electronic ear tags based on animal ID numbers, in other countries

It is permissible in some countries to apply an extra ear tag in an ear. This is the same process as in the previous chapter, only the Excel list has a different format. You create a list with three columns as shown below.

	A	B	C
1	Bedrukking transponder	Levensnummer	Transpondernummer
2	123456789	DE 123456789	999000123456789
3	111111111	DE 111111111	999000111111111
4	222222222	DE 222222222	999000222222222
5	333333333	DE 333333333	999000333333333

You put the animal ID numbers in column B, and create column A using this formula "**= RIGHT (B2, 9)**". Apply this to all the animal ID numbers (you can do this by extending the formula to subsequent cells). Fill column C with "**=999000000000000+A2**". Adapt this for each column!

2.4. Electronic ear tags based on animal ID numbers, in Denmark

In Denmark, the use of electronic animal identification is already obligatory. The MS Optima can operate with this system without any problem.

2.5. Existing HDX/FDX (ISO) transponders

If you are going to use the transponders on the collar, you only need to get a list of the "**animal ID numbers**" and "**transponder numbers**" from the management system. The list must be processed on the MS Optima site – Go to chapter 6.6 for an explanation about reading the transponder numbers.

3. Renumbering ear tags

To provide cows with the new set of ear tags, they need to be renumbered. Check carefully that it is the right animal, ID number and side (left or right) before snipping through the old ear tag!



(On the right, seen from the front of the cow)

Therefore, you should check the complete ID number, and not only the working number, which arises more often on the farm.

Tip! For quick renumbering, use:



0601004, Burgon & Ball Hoof shear Easy

Easily cut existing ear tags



0409302, MS Tag applicator Pro

Easy application of new ear tags

4. Cow traffic

By feeding MS KetoProtect Plus to the "close-up" group, you ensure that the animals have good supply of energy. In addition, the dry cows get used to the sweet (tasty) flavour.

Around 7-10 days from startup, more than 80% should voluntarily access the MS Optima box. You can lead any animals that do not access the MS Optima box to it. Freshly lactating cows may also need leading to the box.

Tip! Set a regular weekly time for taking a moment to assess the attention list and to lead animals to the box.

5. Installing and filling the MS Optima box

5.1. Mounting the MS Optima box

You determine the best location in consultancy with the MS Schippers advisor. Here we take account of the following factors, cow traffic (a central position), that there is sufficient distance from another antenna (minimum 5 metres) in order to avoid interference and accessibility for refilling the MS Optima.

For fast MS Optima box installation, we recommend the following preparation measures. :

Before delivery, ensure that there is a grounded 230-volt power outlet close to the planned MS Optima box location. Locate the outlet at about 2 metres height and within a range of 1 metre from the apparatus.

Check the height of the shoulder rail. The minimum distance from floor height is 1,000 mm (if it is lower, the refill lid cannot be opened).

After the preparation measures above, you are ready to install the MS Optima box. You will also need the following tools:

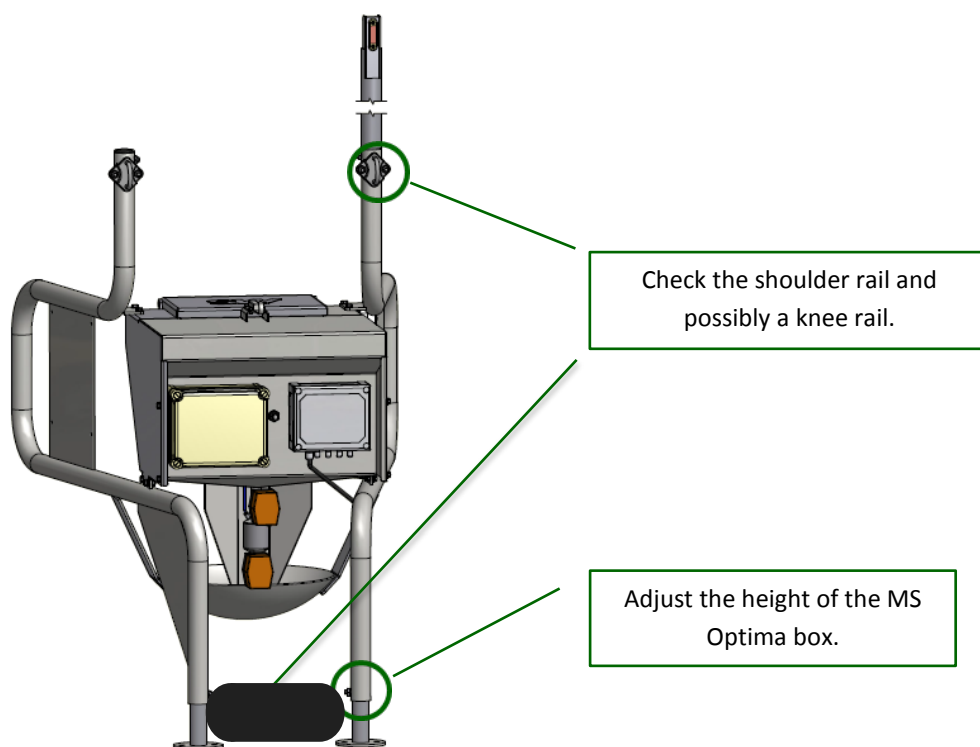
- A drill
- A 12 mm masonry drill
- Open-end and ring spanners 16, 17 and 19 mm
- A 5 mm Alan key

In consideration of hygiene, we advise using the dairy farmer's tools.

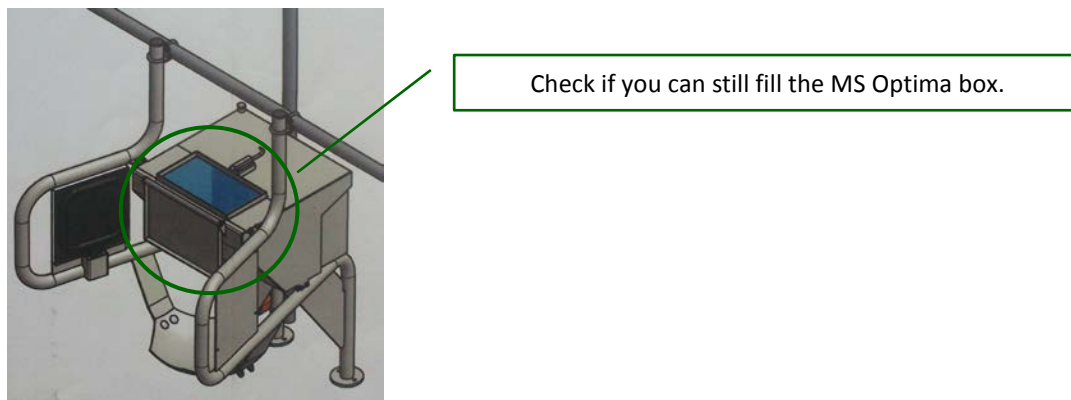
You will find the following items (lying or hanging) in the MS Optima's supply container:

- 2 x U-clamps
- The GPRS antenna (**Check that the antenna is not damaged!**)
- 4 x plugs
- 4 x lag bolts

1. Position the MS Optima box against the shoulder rail and check the height of the box.

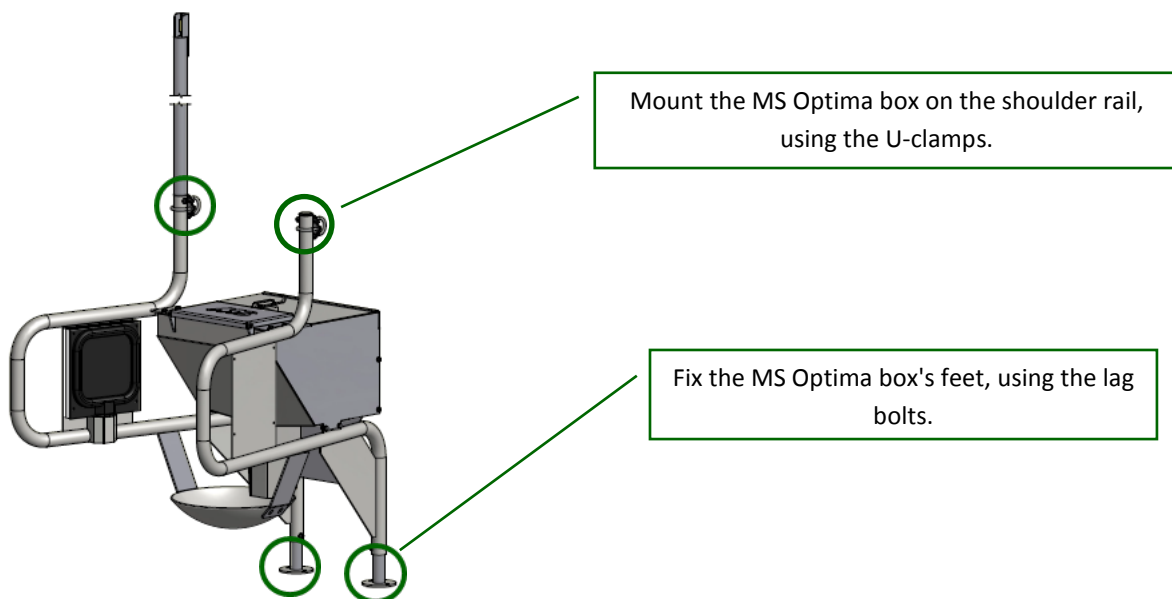


2. If you have deep bedding, you can extend the legs as shown in the image above.
3. Check that you can open hatch for filling with MS KetoProtect Plus, as shown in the image below.



4. Set the MS Optima box level, using a spirit level.
5. Mark, or drill a point, at the correct position for the lag bolts.
6. Put the MS Optima box aside and drill the holes, using a 12 mm drill.
7. Put the MS Optima box back in position and fix it to the shoulder rail.
8. Check that the box is correctly positioned, and hammer in the plugs and screw the lag bolts tight.

Mounting points are shown in the images below.

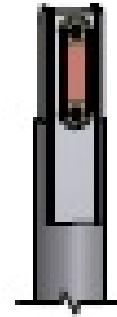


9. Mount the stand with the lamp, and the cable on the antenna, and the antenna on the stand.
10. Put the plug into the power outlet.
11. During night between 00:00 and 01:00, the MS Optima box will communicate again and retrieve a current feed list. On delivery, there will be a food list installed but it will not be up to date (2-10 days arrears).

5.2. Filling with MS KetoProtect Plus

Ensure that the MS Optima box's supply container is completely clean, with absolutely no dirt present. This also applies to the bucket or funnel you will use for filling. Any dirt present may cause the valve to fail to work properly, and it may stick. There is a float sensor in the MS Optima box's supply container.

If the supply of MS KetoProtect Plus goes below 30%, the lamp will blink. Then you should ensure the supply container is re-filled.



6. The MS Optima software

6.1. Logging in to the MS Schippers site

Depending on your country, MS Optima box online can be reached on the internet via:

www.schippers.nl

www.schippers.be

www.schippers.dk

www.schippers-ms.de

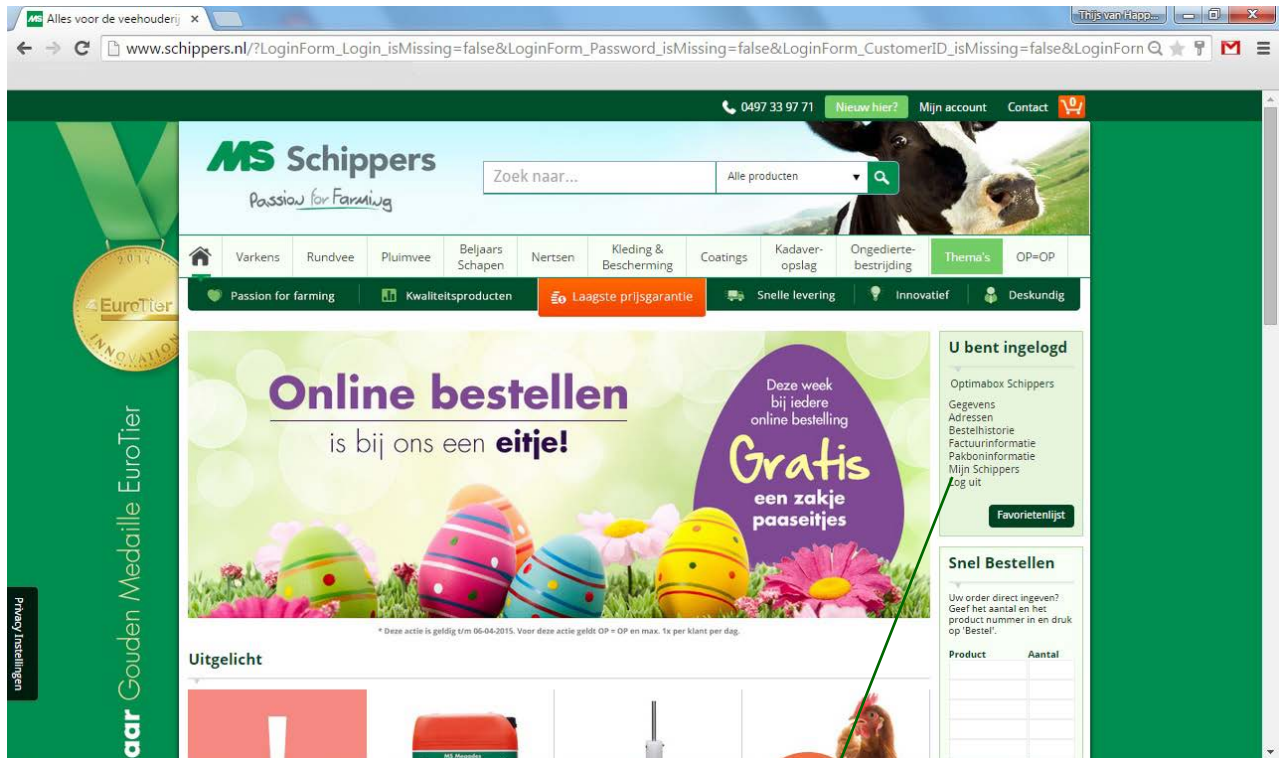
You will then see the following screen. On the right side of the page, you enter your “**Username**” and “**Password**” (pay attention to upper and lowercase characters) and then click on “**Log in**”.

The screenshot shows the MS Schippers website homepage. The browser address bar displays 'www.schippers.nl'. The page features a search bar with the text 'Zoek naar...' and a dropdown menu for 'Alle producten'. A navigation menu includes categories like 'Varkens', 'Rundvee', 'Pluimvee', 'Beljaars Schapen', 'Nertsen', 'Kleding & Bescherming', 'Coatings', 'Kadaver-opslag', 'Ongediertebestrijding', 'Thema's', and 'OP=OP'. A central banner promotes 'Online bestellen is bij ons een eitje!' with 'Gratis een zakje paaseitjes'. On the right side, there is a login section with fields for 'Gebruikersnaam' and 'Wachtwoord', a 'Beveer mijn gegevens' checkbox, and a 'Loggen' button. Below the login section is a 'Contact' section with a photo of a woman. Three callout boxes with green borders provide instructions: 'Enter your "Username".' points to the username field, 'Enter your "Password".' points to the password field, and 'Click on "Log in".' points to the 'Loggen' button.

Then you come to the screen below – the “**Homepage**”. You can access the different parts of the program from this page.

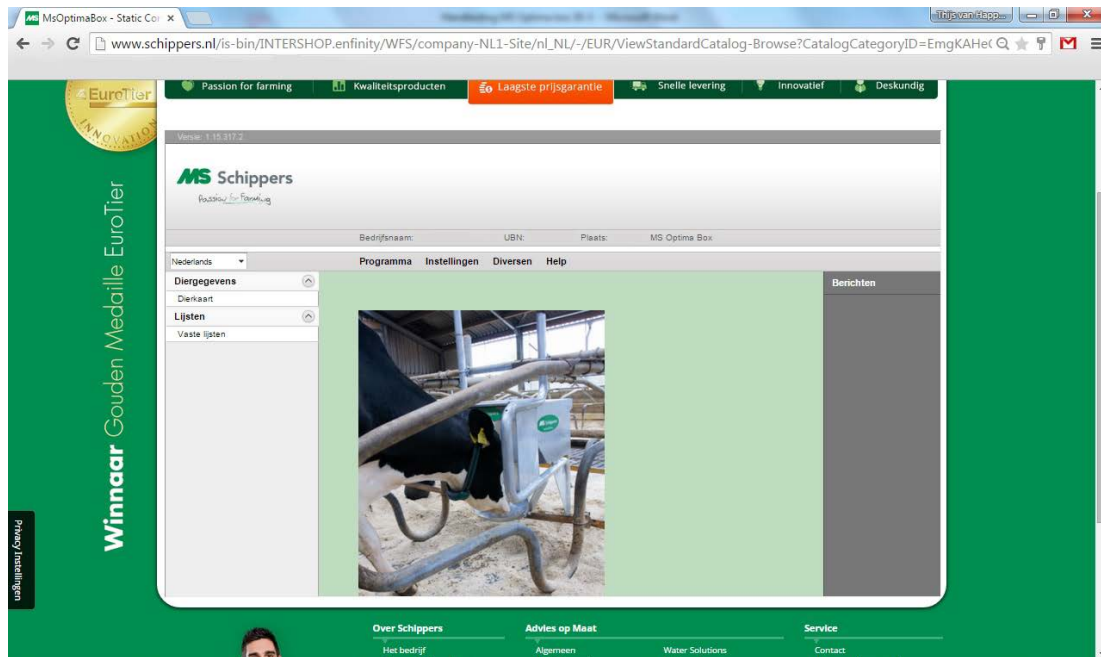
Tip! Put the www.schippers.nl website in your **favourites**, and save the password. This will save time when logging in.

Then choose the “My Schippers” link in the right hand column. See the image below.



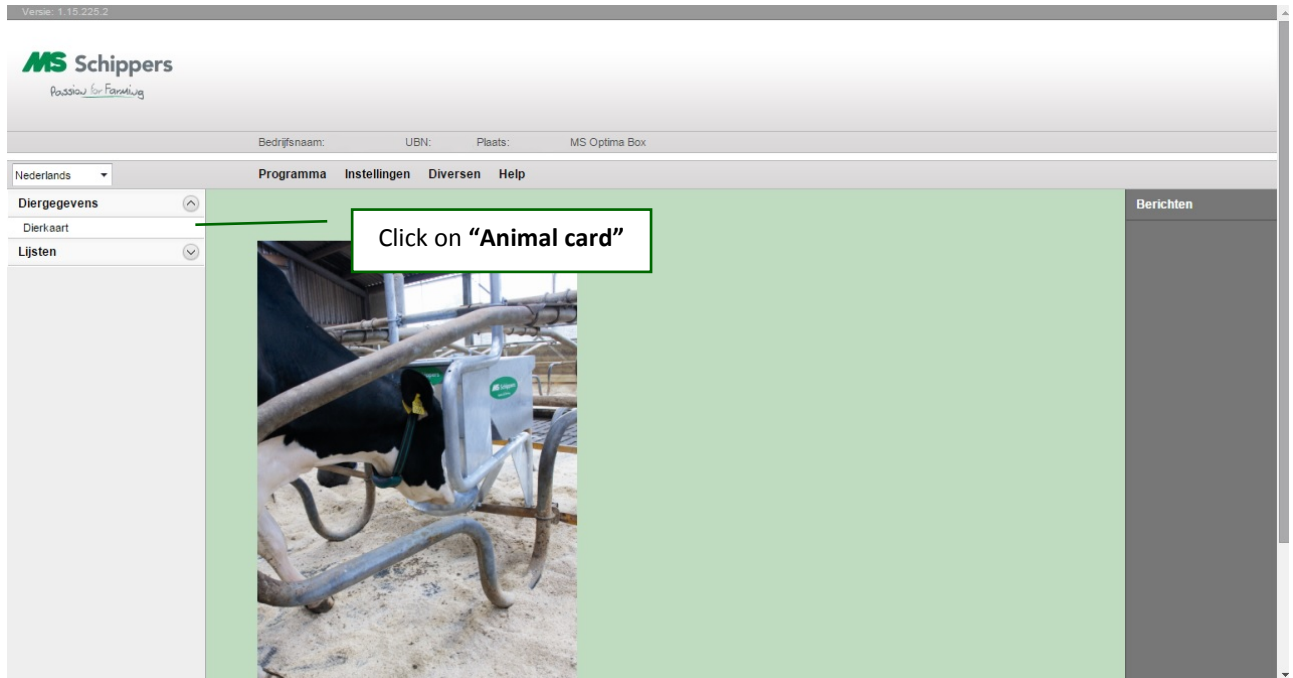
Go to “My Schippers”

Then you are in the software environment. There is an example below.



6.2. Animal data

Click on the **“Animal card”** link (in the left column, under Animal data) If the animal card is not onscreen, click on **“Animal data”**



After clicking “Animal card”, you will see the screen below. From the animal card, you can **“Individually”** modify/change or add the responder number – and under the **“Feed”** tab, you can modify individual MS KetoProtect Plus dosages.

Click on **“Back”** to return to the main menu


Search for an animal by **“working number”**, **“Animal ID number”** or **“name”**.

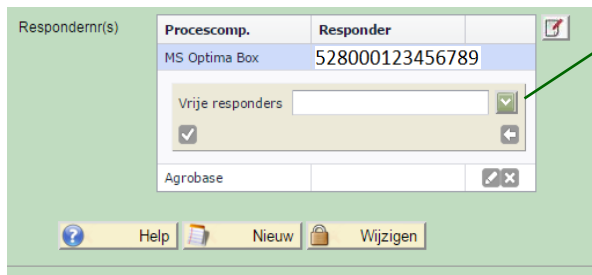
Procescomp.	Responder	
MS Optima Box	528000123456789	
Agrobases		

Click on the **“Pencil”** to modify the Responder number

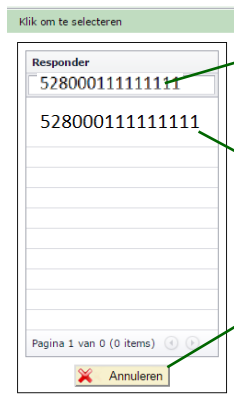
View the **“Responder reserve”** or create a new responder number.

a. Modifying responder/transponder numbers

Make sure you have found the **“Correct animal”** using the **“Animal card”**. To add or modify the responder number, click on the pencil  behind the MS Optima box. When you do that, you will get the menu below.



Click on the **“Green arrow”**

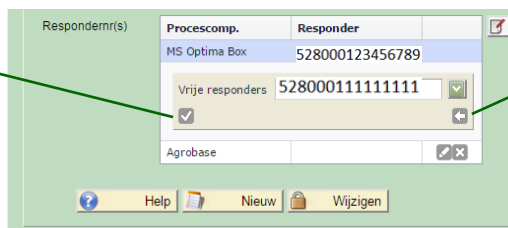


Enter an available responder number.

You can also simply **“click on”** available responder numbers

If you do not want any of the results, you can close – click on **“Cancel”**

To register the new responder number – click on **“Checkmark”**



To go back without any changes – click on **“The left arrow”**

b. Creating responder/transponder numbers

Go to “Animal card” and first search for the “Individual animal”, then go to “responder reserve”



Minas category: Automatisch

Responder(n)s	Procescomp.	Responder	
	MS Optima Box	52800012345678	<input checked="" type="checkbox"/>
	Agrobase		<input type="checkbox"/>

Go to “Responder reserve”

In “Responder reserve”, you can create new responder numbers or delete existing ones.

Respondervoorraad

Responder voorraad

Procescomputer: 528000123456789

Responder	Levensnummer	Responder
52800033333333	NL 123456789	528000123456789
	NL 1111111111	5280001111111111
	NL 222222222	528000222222222

Pagina 1 van 0 (0 items)

Nieuw Verwijder Sluiten

The coupled numbers

The available Responder numbers will be here

Click here to make a “New” responder number

Click on the responder number in the left column that you want to delete, then click “Delete”

Click on **“New”** to create a new responder number. Then you will see the following screen. In the first bar, you can create a new responder number, and you can use the lower two bars to create a series of new numbers.

The screenshot shows the 'Responder voorraad' application window. A modal dialog box is open, allowing the user to create a new responder. The dialog has two main sections: 'Enkele responder' (Single responder) and 'Responder reeks' (Responder series). The 'Enkele responder' section contains a single text input field. The 'Responder reeks' section contains two text input fields labeled 'Van:' (From) and 'Tot:' (To). Below these fields is a green 'Opslaan' (Save) button with a checkmark icon. The background application window shows a list of responders, a 'Nieuw' (New) button, and a 'Verwijder' (Remove) button. A 'Sluiten' (Close) button is visible in the bottom right corner of the application window.

Enter a new responder number

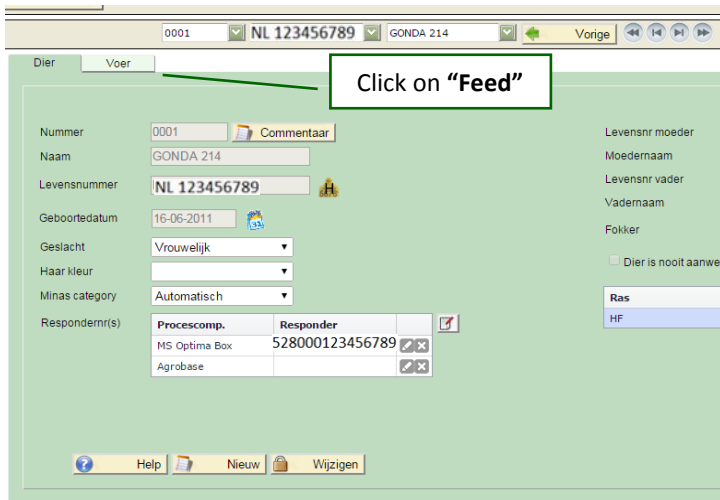
You can enter data for a sequential series here

To register the number(s) – click on **“Save”**

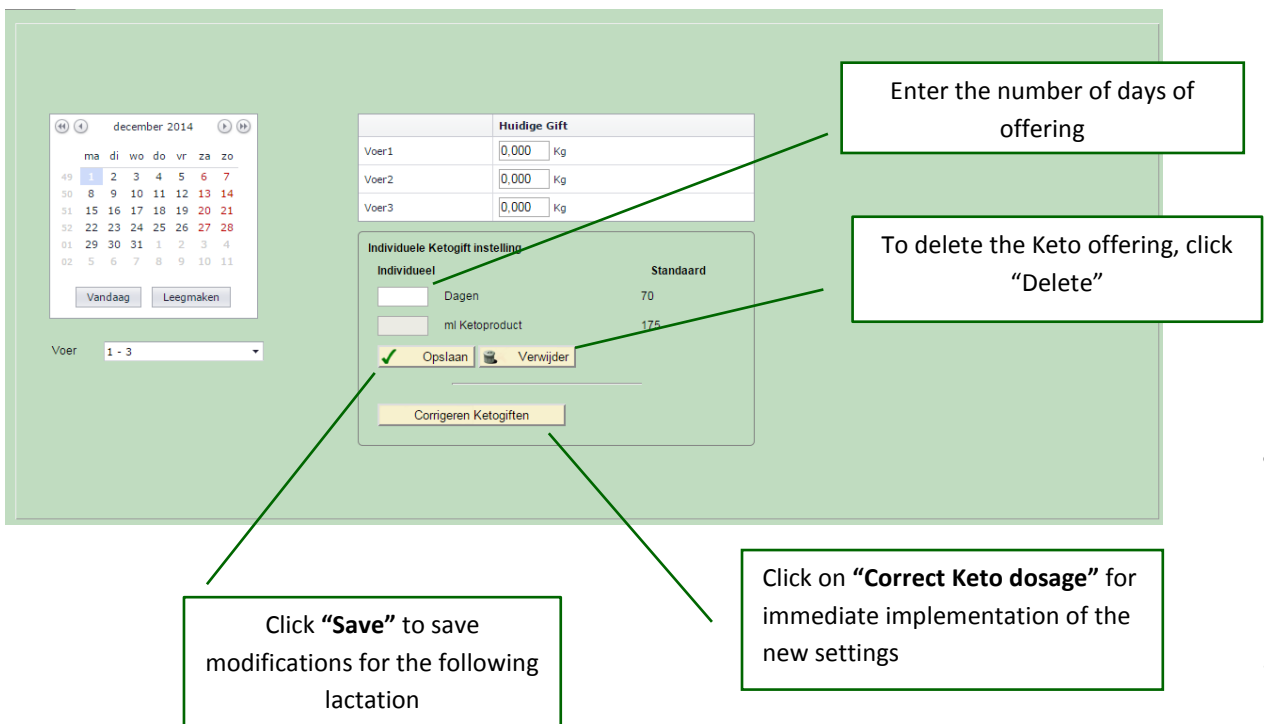
To leave the page – you can click on **“Close”** at any time

c. Individual modification of MS KetoProtect Plus dosage

Go to the animal card and then choose the **“Feed”** tab – see the image below.



Opening the **“Feed”** tab gives access to the following option – see below. For the KetoProtect plus supplement offering, the software counts from the calving date – Giving the number of days that the animal is allowed the supplement. If the period is set for 70 days and you want to allow the animal 10 days extra, you enter 80 days here. After entering data, click on **“Save”** or **“Delete”**, then click **“Correct Keto dosage”**



d. Cycles

It is not obligatory in every country to register an animal's calving if the calf is stillborn. The **"Cycle"** tab on the animal card is for this purpose. In the **"Cycle"** tab, you enter the information that the cow has calved and has the right to MS KetoProtect Plus.

Search for the animal in question

Individual overviews of the number of calvings

Datum	Nr	Status	Opmerking
05-01-2015	1	Afkalven	

After finding the animal in question, you can register the calving. In the overview, you click on **"New"** to register the calving

You have the following options:
"New", **"Delete"** and **"Modify"**

Clicking **“New”** will bring you to the menu shown below.



To register, click on **“Calving”**, or you can quit the menu using the **“Cancel”** button

After clicking **“Calving”**, you can enter the data. Enter the date of calving and the number of calves (or stillborns).

Dood geboren

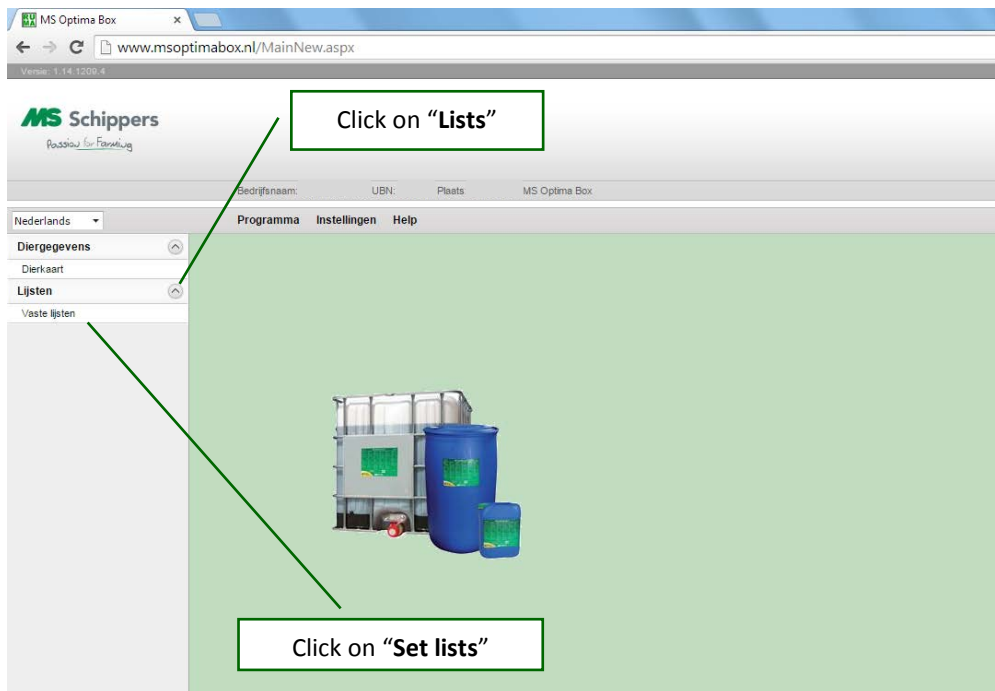
Enter the **“Calving date”** – you can also use the interactive calendar.

Enter the **“number of calves born (or stillborn)”**.

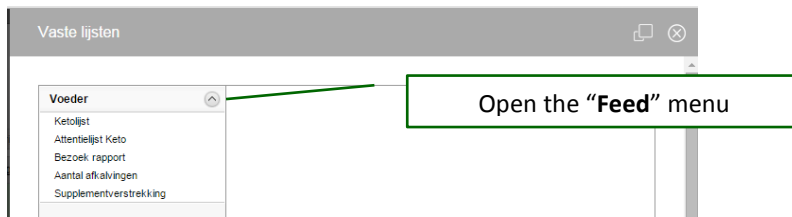
To confirm the data, click on **“Save”**, and to quit the menu click **“Cancel”**

6.3. Requesting set lists

To access records such as the attention list, you click on **“Lists”** followed by **“Set lists”**.

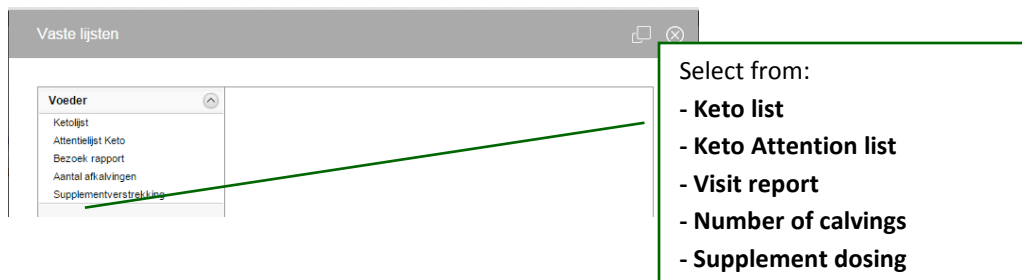


Open the “Feed” tab

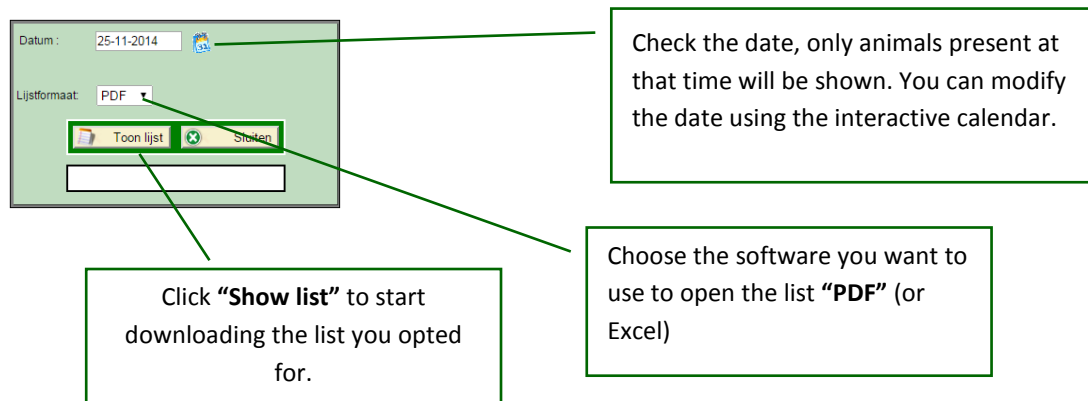


Then you can choose the following options:

- **Keto list** – A list of all the animals on the farm or an exclusive list of animals that are entitled to MS KetoProtect Plus
- **Keto attention list** – For animals that are currently allowed KetoProtect MS Plus
- **Visit report** – Here you can make a report for the last 6 days, showing the total number of visits to the Optima box
- **Number of calvings** – You can see the last calving here
- **Supplement dosing** – Here you can see a report for the last 6 days (identical to the visit report although it does not show the total number of visits)

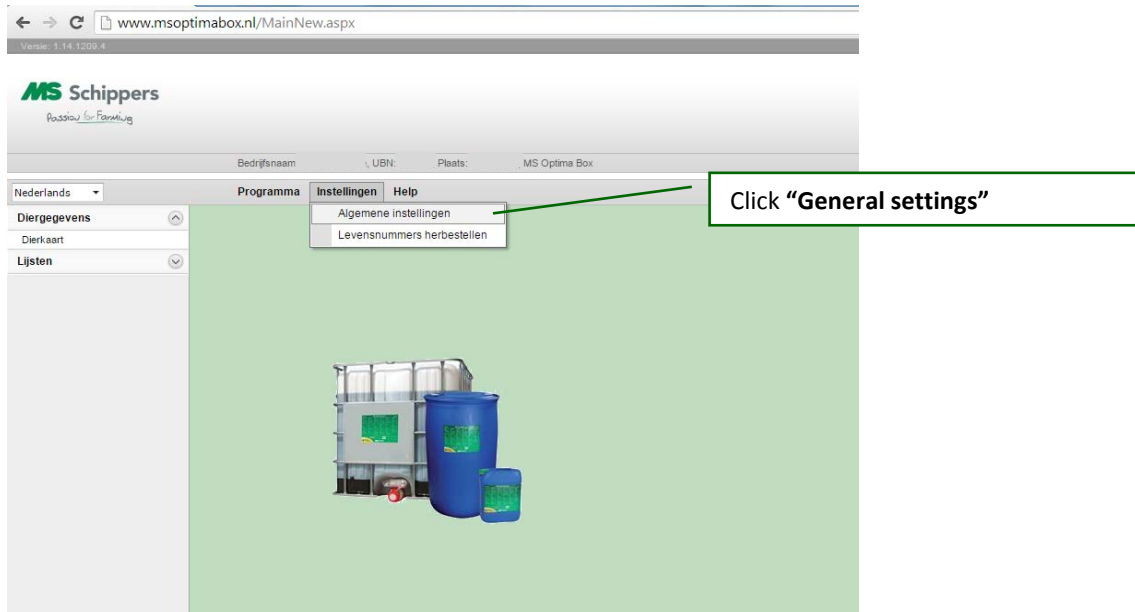


After clicking “Show list”, you will see the following screen, shown below. When the date and list format are set to your requirements, click “Show list” Loading the list may take 3 to 4 seconds, depending on your internet speed.

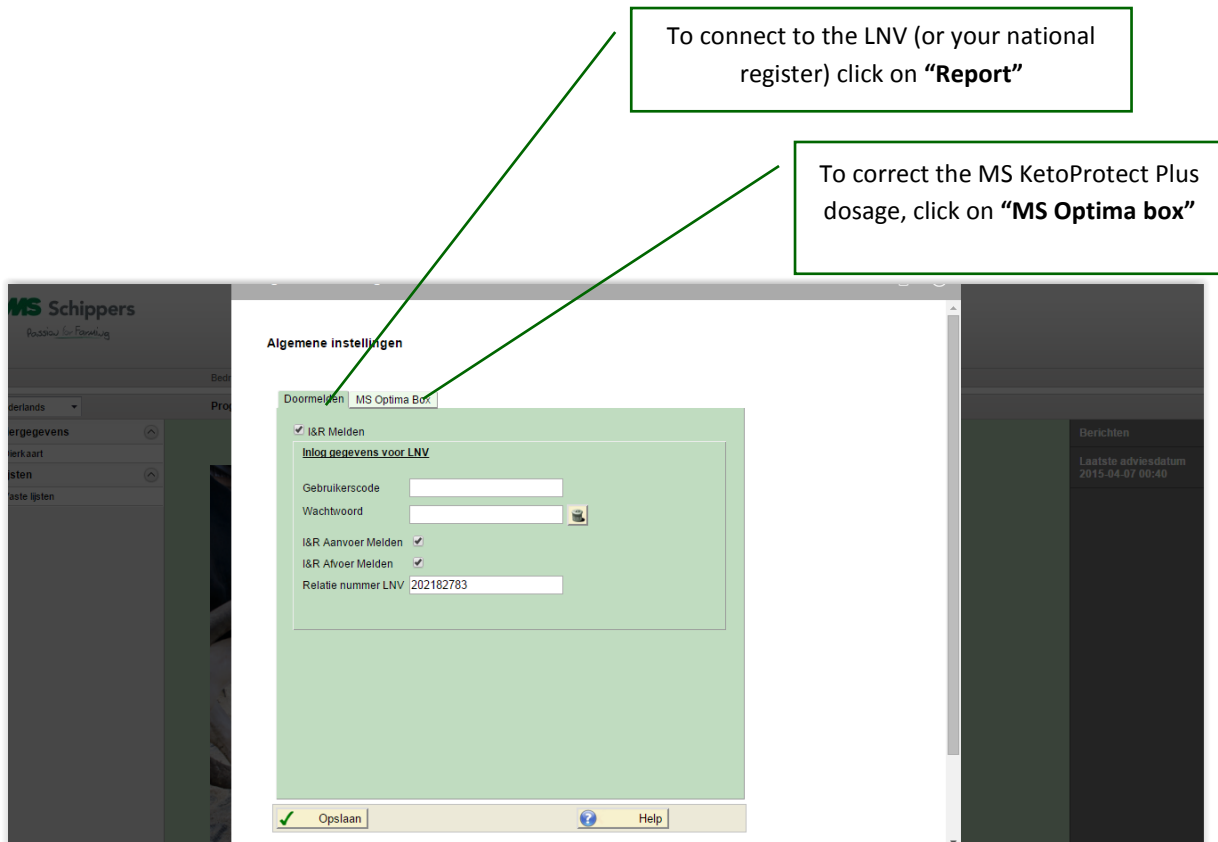


6.4. General settings

For general settings, you go to **“Settings”** and then click **“General settings”**.



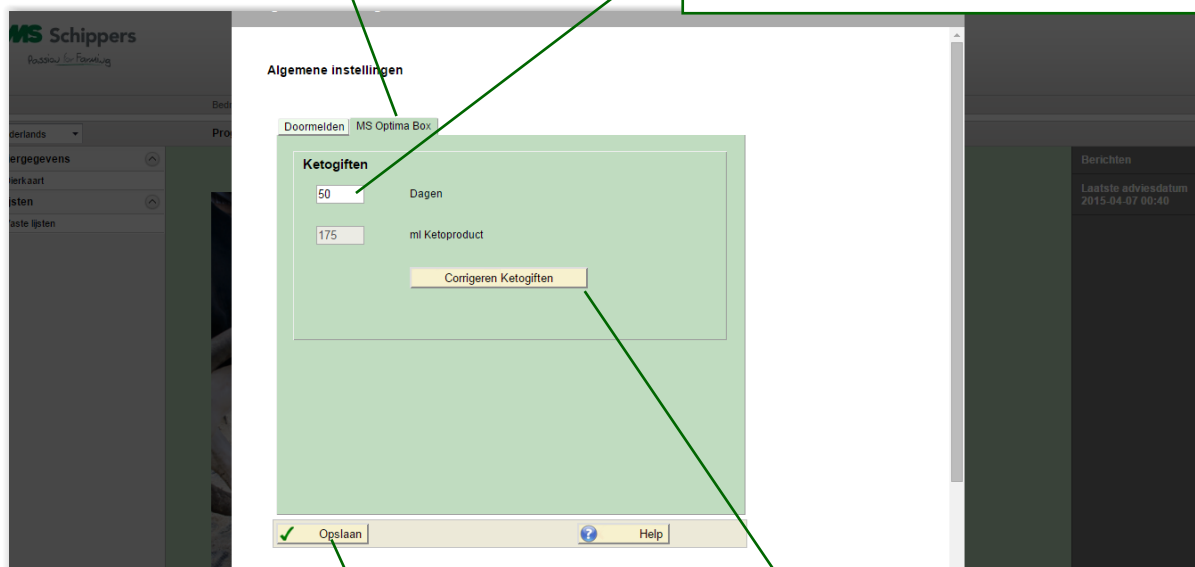
You can check you login credentials in the **“Report”** menu. The data is pre-entered on startup. You do not need to change anything here, unless you receive new login credentials from the LNV (or your national register).



In the **“MS Optima Box”** tab, you can change the number of MS KetoProtect Plus dosage days for the entire herd. Enter the new number of days (minimum 49) and then you can choose **“Correct Keto dosage”** or **“Save”**. If you choose **“Correct Keto dosage”**, a new number of days will be set for the entire herd. If you choose **“Save”**, individual dosing schedules will remain and the new number of days you entered is only valid for fresh milkers.

Click on the **“MS Optima box”** tab

Enter the number of days, minimum 49.

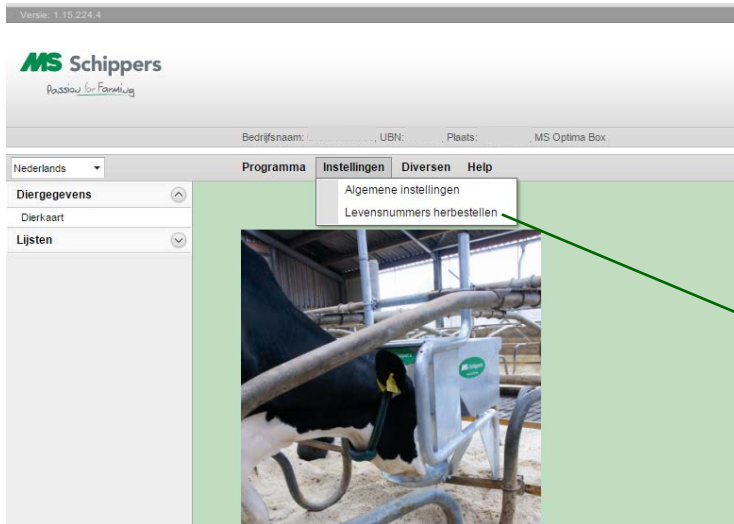


To apply the new number of days to all animals in the herd, click **“Correct Keto dosage”**

To apply the changes to only fresh milkers, click **“Save”**, and then you can close General settings.

6.5. Order or re-order your electronic ear tags (only NL)

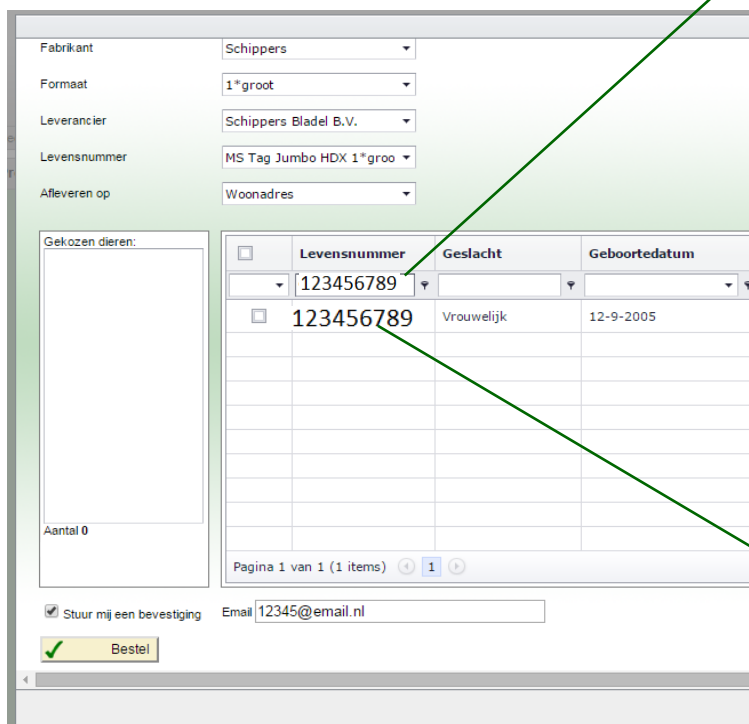
To (re)order electronic ear tags, go to **“Settings”** and then choose **“Re-order animal ID numbers”**.



Go to settings and open the menu. Then click on **“Re-order animal ID numbers”**

Then go to **“Deliver to”** and enter the delivery address

You can find animal ID numbers using the search bar, entering the four digit working number is often sufficient. Once you have the animal in question onscreen, you click on the "select" checkbox, a checkmark will appear there. The animal ID number will appear in the left column under **“Selected animal”**. There is an image on the next page.



Enter the animal ID number that you want to order in the form field

Click on the "select" checkbox to save the number.

You also have the option to compile a selection for a new electronic ear tag order for part of your herd. You can enter **“Gender”** and **“Date of birth”**

Enter a selection for a specific group of animals

Click on the **“selection checkbox”** for the entire herd or first enter a selection

After selecting all the animals, you can opt for **“Confirmation”** by e-mail. Then, you click on **“Order”**. You can follow progress of the data transfer in the percentage bar. The numbers that you ordered are shown in the lower pane. Then click on **“Close”**. Your ear tag delivery will take 2 to 3 weeks.

To receive **“Confirmation”** of your order, click on the "selection" checkbox and check your e-mail

After clicking **“Order”**, you can see the progress of sending your order in the percentage bar.

Once you have found all the numbers you require, click **“Order”**. It may take a little time before the software has requested all the numbers. **DO NOT CLOSE THE PAGE.**

When you are done, click **“Close”**

6.6. Reading transponders

If you are using collar transponders, for example, there must be a link between the animal ID number and the transponder number.

1. Process the data in an Excel file, with animal ID numbers in one column and transponder numbers in another.

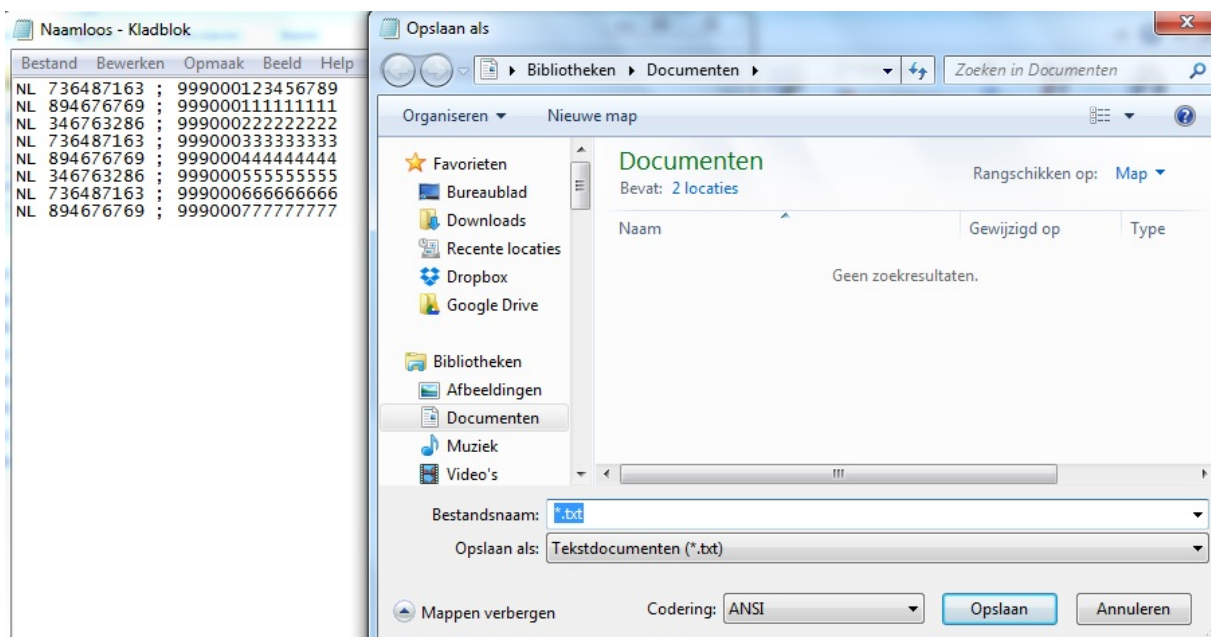
	B	C
1	Levensnummer	Transpondernummer
2	NL 123456789	999000000000001
3	NL 111111111	999000000000002
4	NL 555555555	999000000000003
5	NL 999999999	999000000000004

Then create a third column. Enter the following formula here

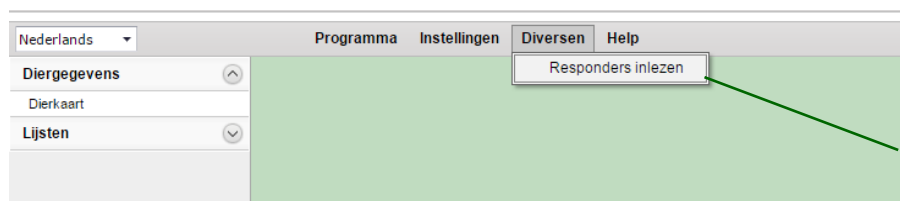
"=CONCATENATE (click on the cell containing the animal ID number),";";,(click on the cell containing the transponder number) ", as shown in the example below.

D2 fx =TEKST.SAMENVOEGEN(B2;"";C2)			
	B	C	D
1	Levensnummer	Transpondernummer	In te lezen in de Optima software
2	NL 123456789	999000000000001	NL 123456789;999000000000001
3	NL 111111111	999000000000002	NL 111111111;999000000000002
4	NL 555555555	999000000000003	NL 555555555;999000000000003

Copy the last cells you created and paste them in notebook. There is an image below. Then you save the it as a **"*.txt"** file

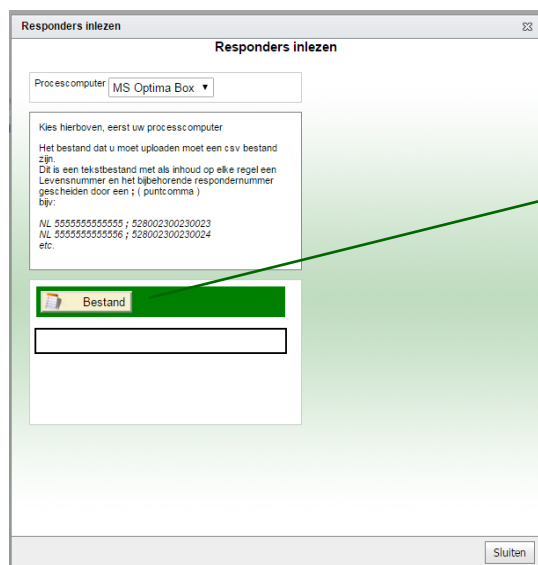


To link transponder and animal ID numbers, you go to **“Other”**, see the image below.



Click on **“Read responders”**

That will bring you to the following screen, where you can load **“Text”** files.

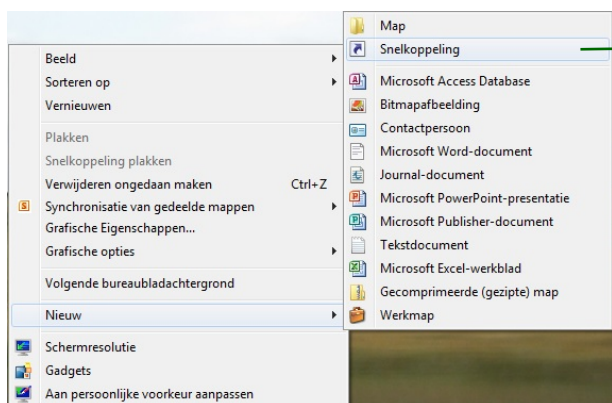


Click on **“File”**

Here you add the **“Text”** file that you created.

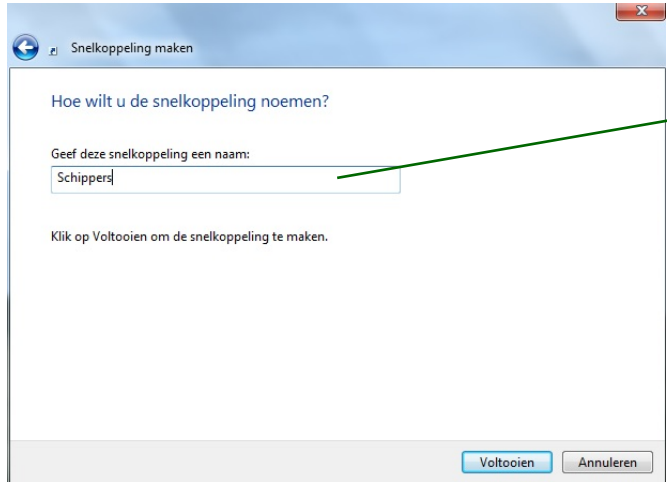
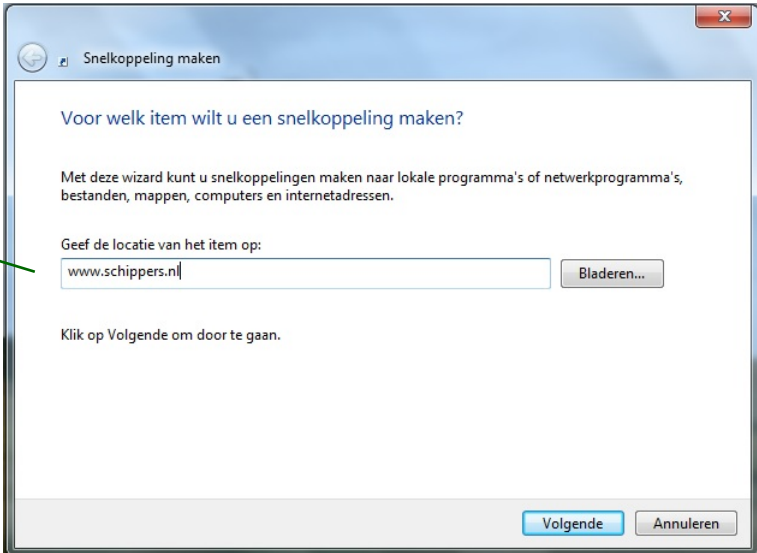
7. Creating a desktop shortcut

You can a shortcut on your desktop. On the desktop, click the right mouse button and choose "shortcut".



Click "Shortcut"

Enter the MS Schippers website address: **www.schippers.nl**



Enter the site name: **MS Schippers**



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