

# The functionality of AM



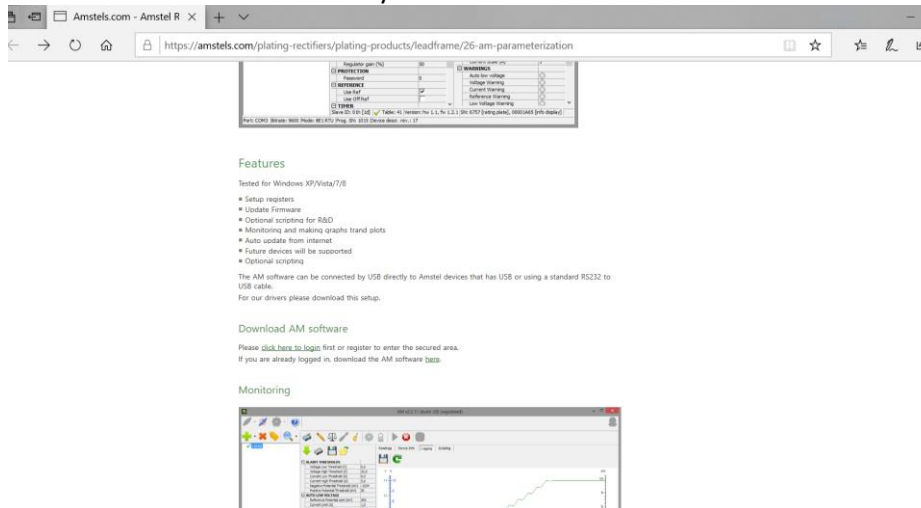


## Content

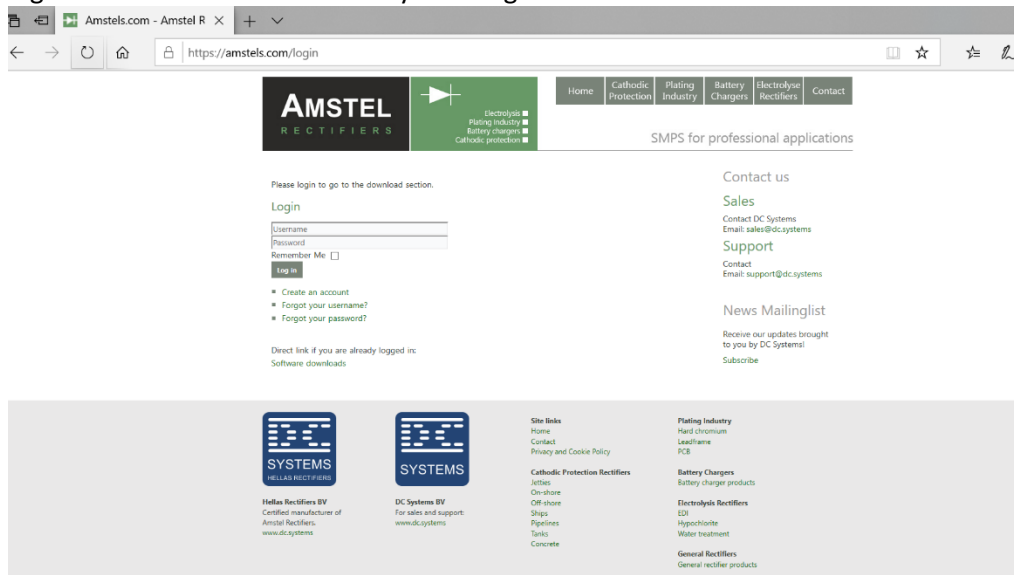
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# 1. Downloading AM

1. You can download AM by using the following link: <https://amstels.com/plating-rectifiers/plating-products/leadframe/26-am-parameterization>
2. To download the AM software you need to have a valid account.



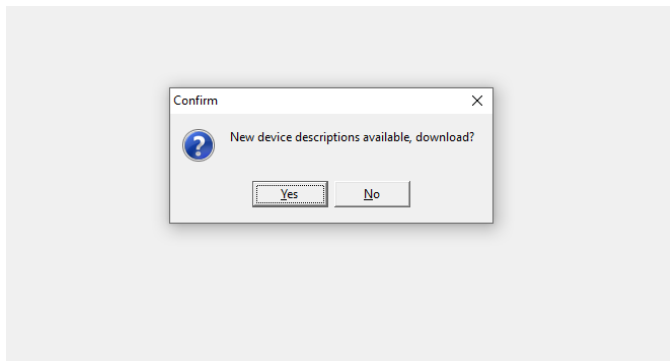
If you already have an account you can download AM by clicking the text "click here to login". After this the site will ask you to log in with an account.



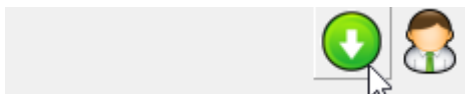
If you don't have an account then you need to follow the steps to create one. In this case you will receive an verification e-mail, that sometimes ends up in the spam box.

If you managed to download AM then you can follow the steps of the installer to install the software. If problems arise, you can always contact a DC systems employee.

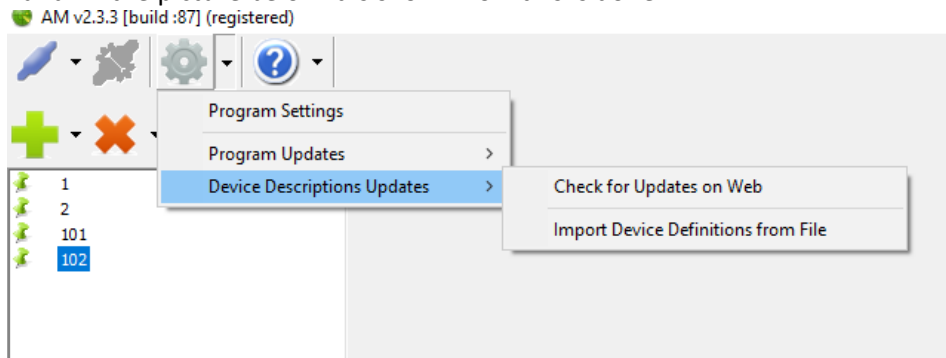
3. If you have installed AM, then you need to be sure that you got the newest device description files and the latest version from AM. Normally, if there are new device descriptions there will be a pop-up in your screen.



If there is a new version from the AM program then a green download button will appear in the top right of your screen.

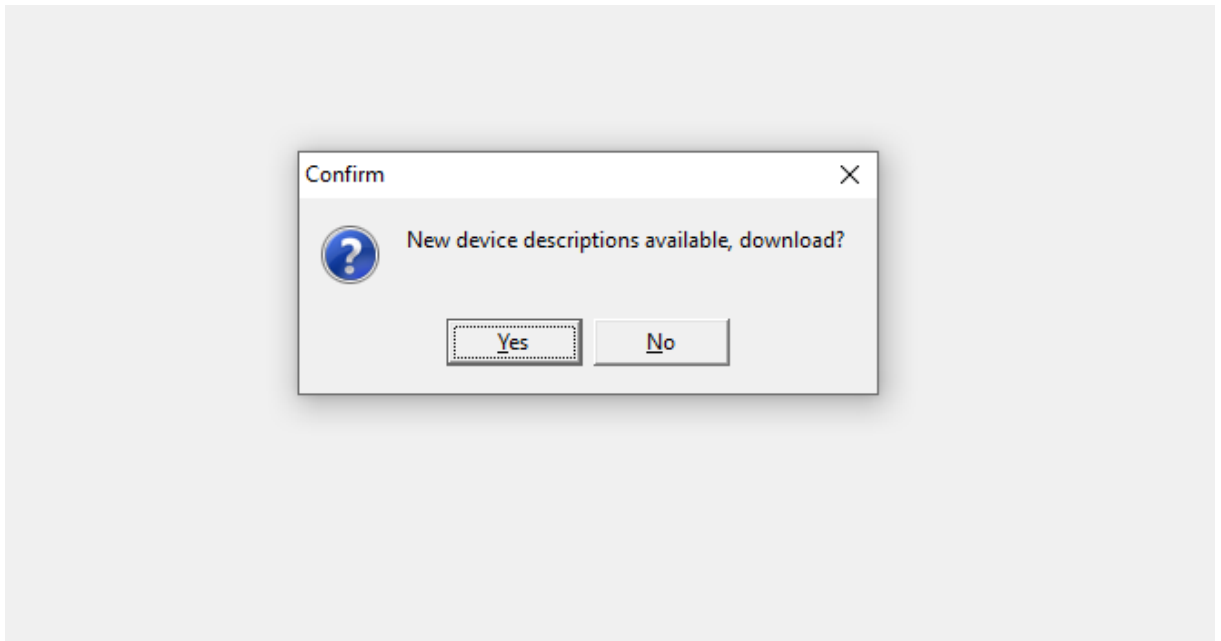


4. It is always possible to download the newest version of AM and of the device descriptions by hand. In the picture below it is shown how this is done.

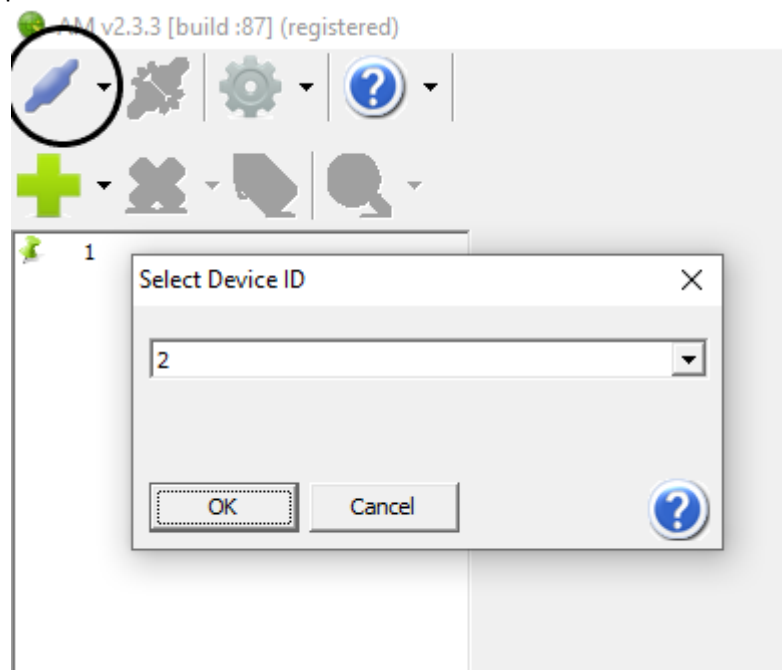


## 2. Connecting to a device

1. Open AM, download the new device descriptions and install the newest version from AM, if needed.

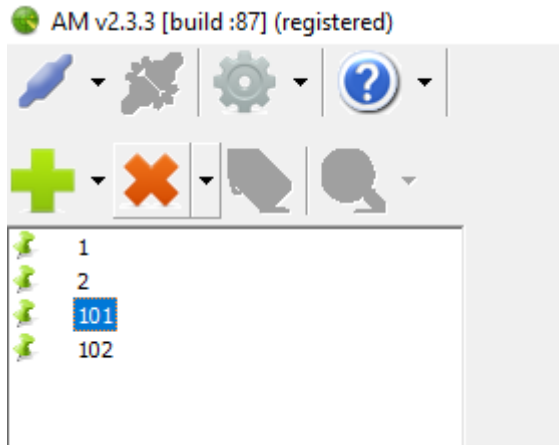


2. Add ID 1 to the component list. This is done by clicking on the green plus sign shown in the picture below.

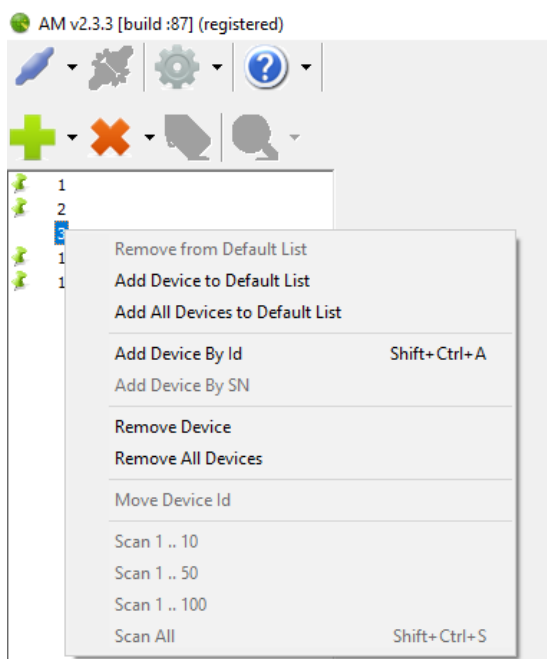


It is possible to add multiple ID's if necessary.

- It is possible to delete ID's by selecting an ID and then clicking on the red X.



- By clicking with the right mouse button on the ID it is possible to perform various actions. One of the most used functions is "Add Device to Default list". If an ID is added to the default list it remains in the list even if AM is closed. So when you restart the AM program the ID's from the default list are automatically added.



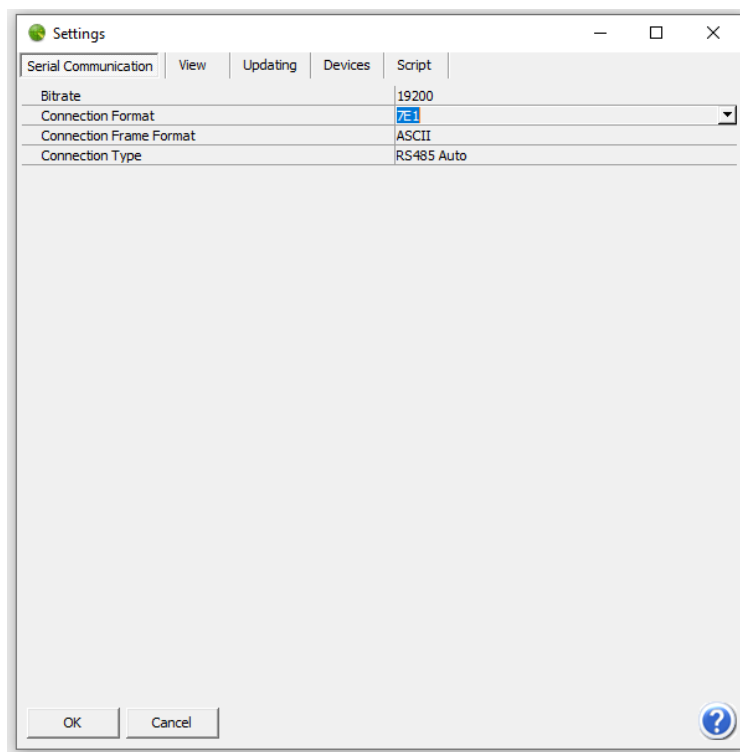
5. Making a connection with the device can be done through two methods. The first possibility is to make a connection through USB, if the USB connection is on the device. The second method is made through a communication connector, mostly an RS-485 connection.

If you want to establish communication through the RS-485 connector, then you need to be sure that you use the right communication settings for the device that you use. Those communication settings can be different for every device, and can be changed in the device itself as well.

However, to change the settings for AM you need to click on the gear icon, on the left side of the information icon.



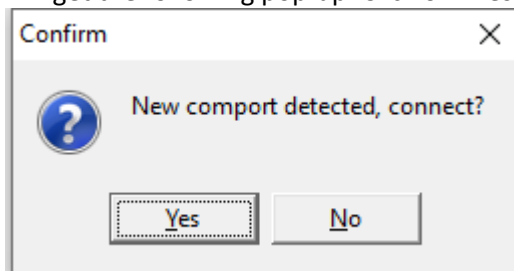
After clicking on the gear button, a pop-up a settings window will appear. The communication settings can be changed under the tab “Serial Communication”. After clicking on the “OK” the settings are stored.



- To start up the communication you need to click on the connect button on the top left of your screen. After this you can select a communication port (see the picture by step 7).

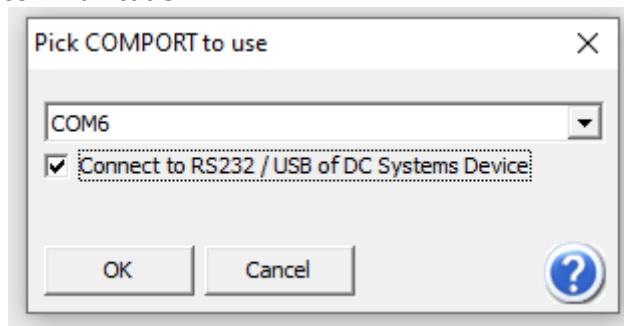


If you are using the USB connection, then you only need to connect the USB cable and you will get the following pop-up. Click on “Yes” to continue.



- It is required to select the right comport type to continue the communication. If you used the USB port and you did get the notification “New comport detected” then the right comport is already selected.

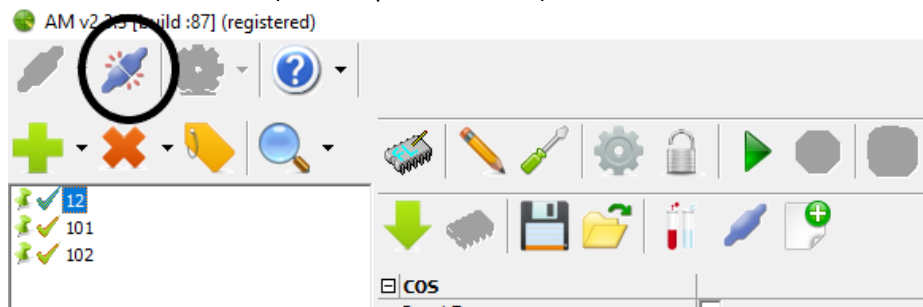
**If you want to connect through the USB, then you need to be sure that the check mark “Connect to RS232/USB of DC Systems Device” is checked. If you use the USB connection, be sure that you have added ID 1. Because ID 1 is always used by this way of communication.**



After this the connection is made with the device.



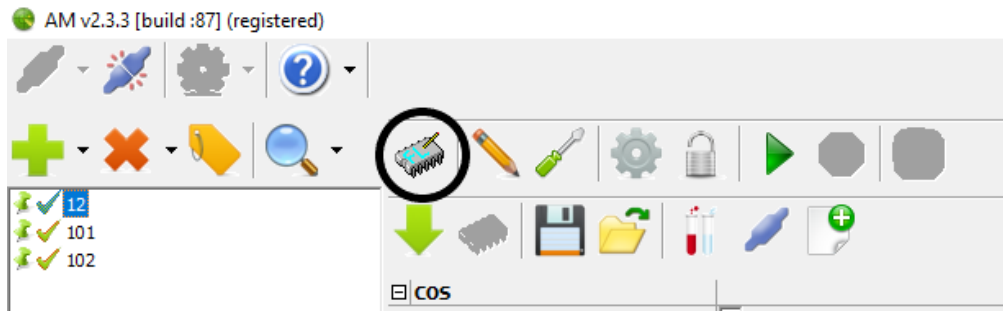
8. If you want to break the connection with the device, then you need to click on the disconnect button (see the picture below).



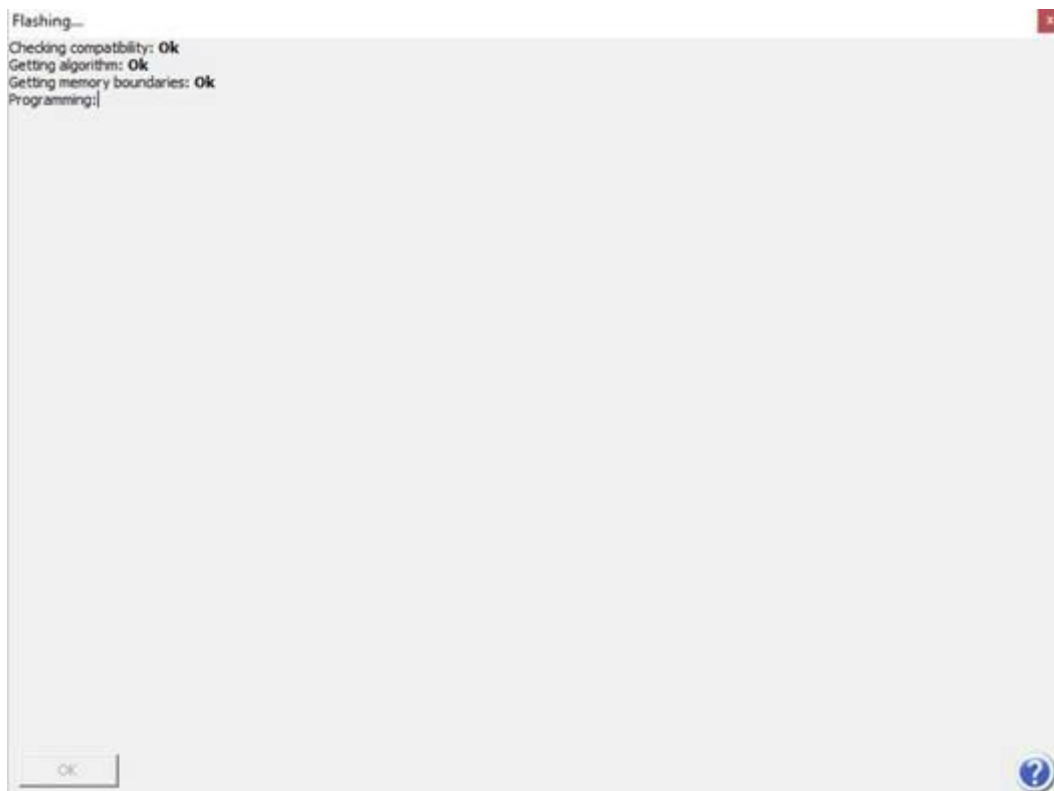
### 3. Updating a device

Updating should only be done on the advice of a DC systems employee. The file required to update the device is also supplied by a DC systems employee.

1. If a connection has been made with a device, it is possible to update this device. The update is initiated by clicking on the top chip button (see the image). A pop-up window will now appear to select the update file. This must be the file sent by the DC systems employee.

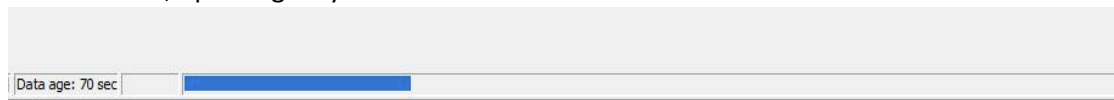


2. The device will then update and a window will appear that looks like this.

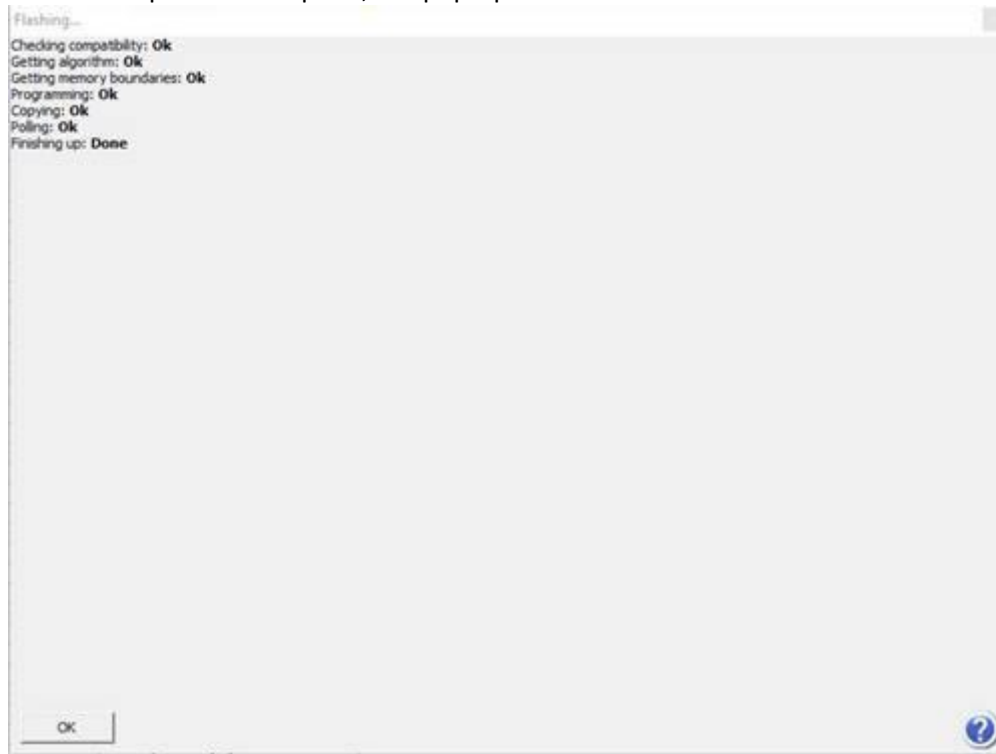


- The device is now updating.

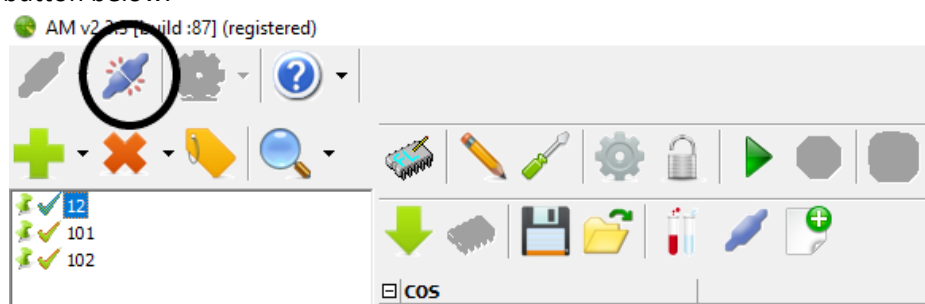
**It is now important that the communication connection is not broken and that the power is not removed from the device!!!** The progress bar for this process can be found at the bottom of the screen, updating may take a few minutes



- When the update is complete, the pop-up window will look like this.



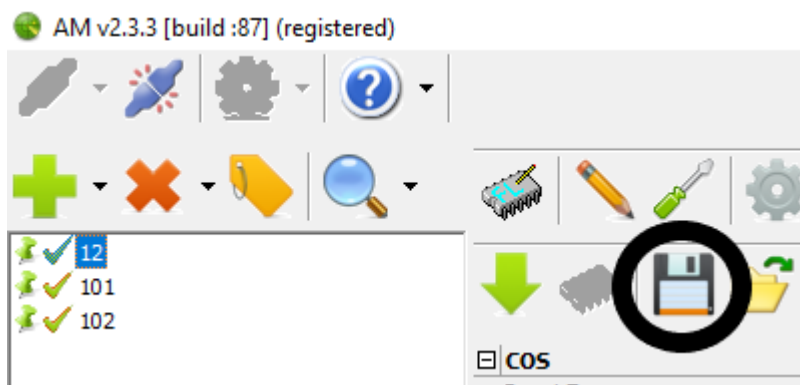
- Now the connection to the product can be terminated. But before the connection is terminated, it is advised to check the settings. In AM the disconnection can be done using the button below.



## 4. Saving and Loading a settings file

Making a settings file might be useful if you want to save your settings for later. Or if you want to make/duplicate an installation. It also might be possible to get a specific settings file from your supplier.

1. Make a connection with your device. *See chapter: 2. Connecting to a device.* For “loading a settings file” go to point 6. For saving a settings file, go to the next step.
2. If you are connected and you can now save **the current settings form your device to a settings file**. Check your settings one more time before saving your file. **Check especially the enable/turn on coil!** If this coil is on, then this is also written in the settings file. So if you load this file in an other device then it will turn on the moment this file is loaded!
3. If you are sure to save the settings file then you can save it by clicking on the save button, as shown in the picture below.



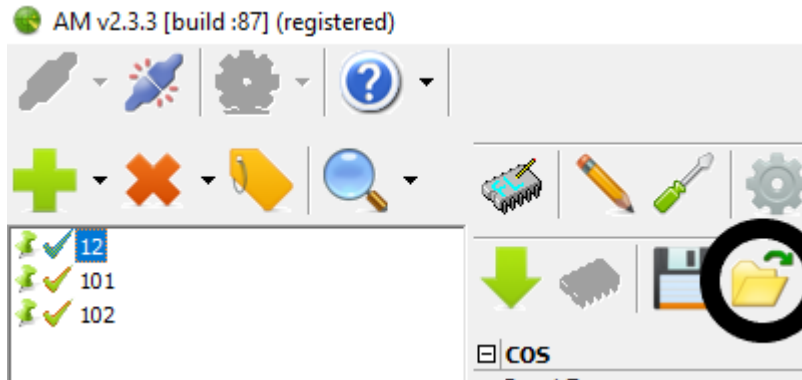
4. A pop-up window will appear, and you can now select a place to save the settings file.



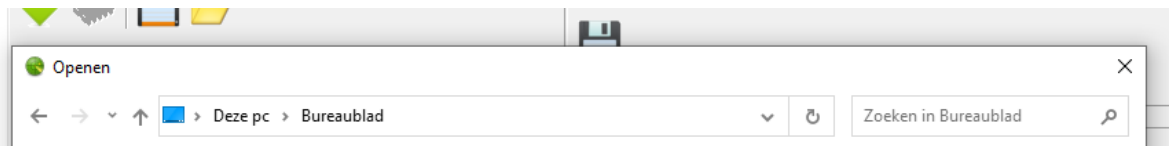
5. It is advised that you include the HW version, FW version and the device type in the name of the saved settings file. In this way it is able to retrace the settignsfile if needed.

- When you are connected to a device it is possible to load a settings file. Make sure that the output from your device is disconnected! **It might be possible that the device turns on when the settings file is loaded.**

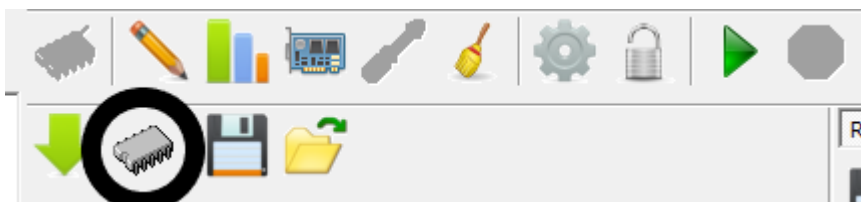
To load a settings file you click on the folder icon as shown below.



- A pop-up window will appear, you can now select a settings file. **Again, depending on the settings file it might be possible that your device will turn on when the settings file is loaded. It is suggested is that you disconnect the output of the device.**

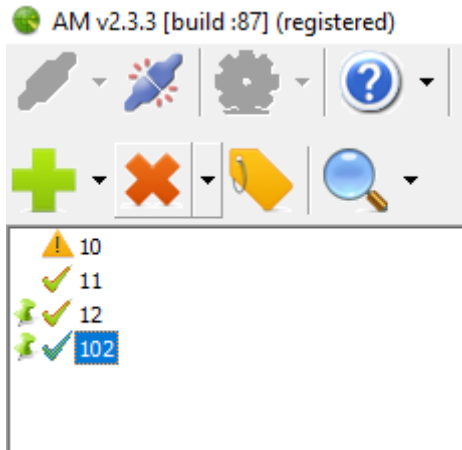


- The settings are now loaded, depending on the device and settings that you have loaded the chip button will appear. When it appears you need to click on it to save the settings in the device.



## 5. Status of the connected device

If there is a connection to a comport, but you do not receive any information from the device, various situations may arise. The picture below shows four situations, the situation of ID 10, ID 11, ID 12, and ID 102.

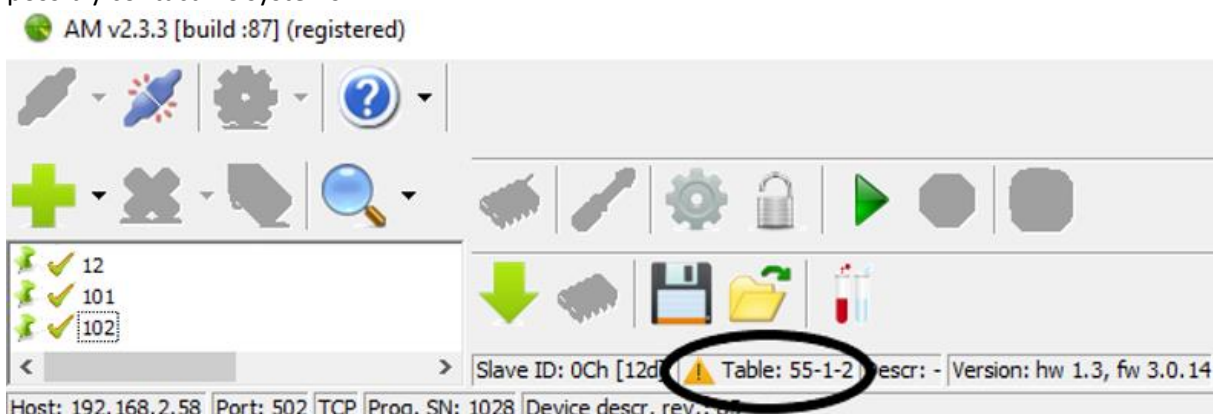


There is a yellow triangle in front of ID 10. This means that the device with ID 10 cannot be found on the connection. The causes of this can include:

- Wrong communication settings (bitrate, format etc)
- A device that is turned off
- An ID that does not exist
- A broken connection

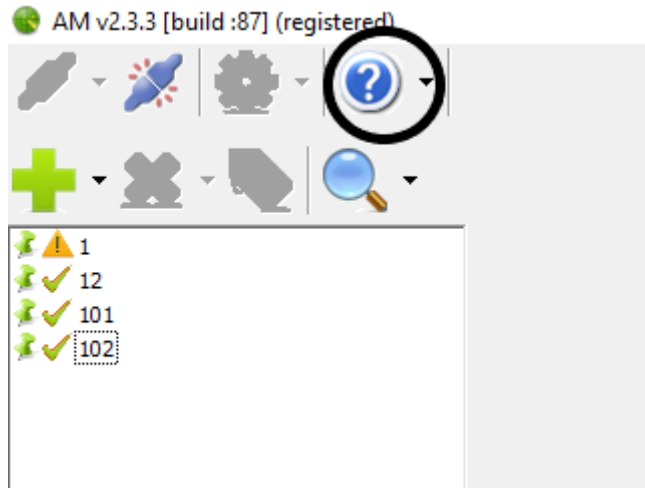
In the Situation of ID 11 and ID 12 there is no difference. Both devices are connected and the device is connected. However, there is a pin at ID 12. This pin only means that this device belongs to the default list.

However, with ID 102 it is different. The image below shows that there is connection with ID 102, but no data is retrieved anyway. This is because the device descriptions file is not present. This can be seen by the blue circled. If this occurs, one can try to update the device descriptions manually or possibly contact DC systems.



## 6. Other Functions

AM has more functions than described in this document. If you have more questions, they can always be asked to an employee of DC systems. The system also has a help button, where additional information can be found.



By clicking this button you will get additional information about the different functions of AM.

