

WIN - DIGIPE T

Das Steuerungsprogramm



Version 2015 • Programmer Edition

Quick Start Guide



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1. Quick Start – Step 1 : Installation and start program

You've just earned the Win-Digipet 2015 Programmer Edition and want to use the program as soon as possible.

The Quick Start Guide shows you how to use the basic requirements for the operation of Win-Digipet Programmer 2015 Edition to program a decoder and how to create a decoder template.

1.1 Installation of the program

The **Win-Digipet** 2015 Programmer Edition (from here on referred to as **Win-Digipet**) comes with a USB stick, with a Quick Start Guide in the package. On this medium are contained all the program files that are necessary for the installation and operation of **Win-Digipet**.

On the stick is present, in addition to the installation and documentation files, a selection of images and sound files that you can use for your installation .

The documentation is stored in the so-called PDF format. You can use a free viewer from Acrobat (Acrobat Reader) or any other PDF viewer to open and print it, if necessary, on your computer. Pay attention the extent of documentation and critically examine whether a (complete) description is useful.

The USB pen drive is protected for copyright reasons against unauthorized copying. This copy check at irregular intervals, the legal license of your win-Digipet installation. For this, the USB stick must be plugged into your computer during program execution. We recommend that you leave the stick generally in a USB port.

Insert the disk with the software **Win-Digipet** into a free USB port on your computer.

In general, the disk in Windows Explorer should appear as a new drive after a short detection time.

Open Windows Explorer and locate the drive icon of **Win-Digipet** USB sticks. Double-click on the drive icon you sink the contents of the disk show.



The installation file is located in the root directory of the USB stick and is named **SETUP**.

With a double click, with the left mouse button, on the **SETUP** file, the program opens and displays the installation dialog shown in the image.

Win-Digipet used for installing the comfortable "Windows Installer". He recorded all the files to be copied into a database so that in case of any uninstall all the relevant files belonging to program will

be removed from your system.

The "Windows Installer" needs at least 200MB of free hard disk space on your hard drive **C:** \ to unpack and edit the installation routine.



During the installation process, all files are processed in a temporary directory and automatically deleted after successful installation.

At the beginning of the installation the so-called "InstallShield Wizard" checks if the "Windows Installer" is available on your system, if not, it will be installed automatically. In this case, restarting your computer will be required.

After this reboot, if needed, the installation will automatically continue. Usually, you only need to click 'Next' or 'OK' to drive the installation to completion.

	<p>First-Installation:</p> <p>The installation path for win-Digipet is specified in the "<i>Choose Destination Location</i>" and is set to C:\WDIGIPET_PROG.</p> <p>The recommendation is to use this path for your installation.</p> <p>If you want to change the suggested path, click on '<i>Edit</i>' and then overwrite "Select Folder" window, the default path (C:\WDIGIPET_PROG) with the drive letter and directory name that you want. Confirm your choice with OK.</p>
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When finished, the installation program creates an icon for **win-Digipet 2015 Programmer Edition** on your desktop.

	<p>At the end of the installation process, the computer should be restarted. This will ensure that the configuration files are created correctly and win-Digipet was entered in the registry of Windows.</p>
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You have **win-Digipet** installed on your computer and can start with the Quick Start Guide.

After the first launch of Win-Digipet the original USB stick must be plugged into an available USB port.

Later, the stick every few days is automatically called by the program. Therefore keep the stick very carefully in order to leave this not infected.

1.2 Features of win- Digipet 2015 Programmer Edition

Win-Digipet 2015 Edition Programmer is a universal tool for programming digital decoders.

- It can be vehicles (locomotives, cars, etc.) recorded in a vehicle database and linked to one (or more) decoders.
- Decoder data that should be read or write are stored in the vehicle database.
- The vehicles in the database may be provided with pictures for better identification.
- The program supports the following programming modes:
 - DCC
 - Motorola



- mfx
- Selectrix (SX1 and SX2)
- It can be programmed on the programming track or the main track. Programming on main track should be supported by your digital system.
- For processing the decoder data many decoders templates are provided.
- A convenient editor for creating your own templates decoder is also available.
- There are over fifty digital systems to choose from, twelve of which can be used simultaneously.
- A additional SUSI-module can be recorded in the database at the corresponding locomotive and thus also programmed.
- The establishment of a test section and the support of different chassis dynamometers it is possible to calibrate the engine and adjust to the correct speed.

1.3 Program start



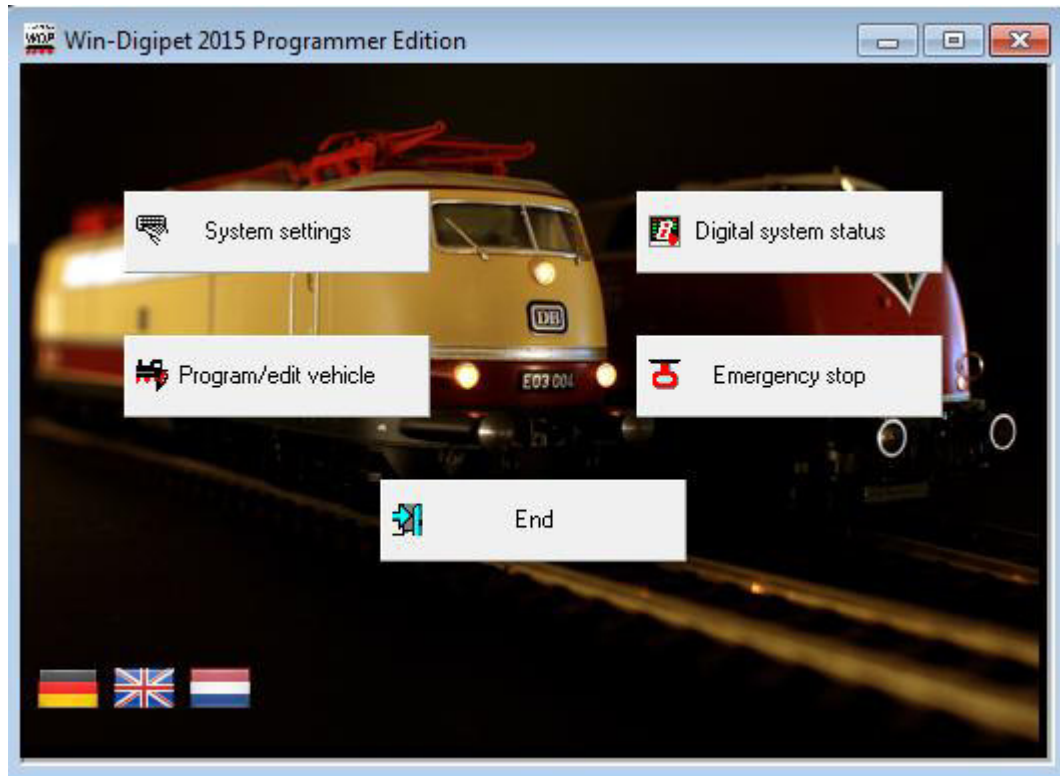
To start the program, click on your Windows desktop, click the icon **Win-Digipet 2015 Programmer Edition**.

Alternatively, you also have navigate the Windows Start menu, to the program group **Win-Digipet** and open the program from there.

Users who use Windows version 8, find the corresponding "tab" on the Metro interface. You can also access the programmer from there.

After **starting** the central menu of **Win-Digipet** opens 2015 Programmer Edition. You can start the various program components.

- **System Settings:** Recording digital system and feedback modules, configuration backup and external software
- **Edit vehicles and Programming:** The main part of the program used to program the decoder based on a vehicle database
- **Digital System Status: Displays** the digital system status information transmitted by your digital system
- **Emergency stop:** The digital system is stopped
- **Exit:** exit from **Win-Digipet 2015 Programmer Edition**



1.4 Documentation and help

In the development of **win-Digipet** much attention was paid to the documentation of the program and the integration of help functions in this program version.

On the disk you will find an extensive manual that provides detailed information about all parts of the program.

The documentation is stored in the so-called PDF format. You can use a free viewer from Acrobat (Acrobat Reader) or any other PDF viewer to open and print it, if necessary, on your computer. Pay attention the extent of documentation and critically examine whether a (complete) description is useful.

In addition, you also have the option to file your personal comments and bookmarks to place. This will also appear in the printout. A further processing in particular copying and pasting text and images into other programs is not provided.

	<p>For fast support while working with Win-Digipet the complete manual is included as a help file.</p> <p>You can access this help file from all parts of the program by pressing F1.</p> <p>This function is a context-sensitive help, that will take you directly to the place in the documentation that deals with the topic currently in your editing.</p>
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On the disk some video tutorials on different subjects can be accessed. These videos can be played on all popular video display software (eg Windows Media Player).

All videos are available on the YouTube channel of **win-Digipet** at:

www.youtube.com/user/WinDigipet



Finally the [user forum](#), on the website of **Win-Digipet**, also offers a lot of tips & tricks to almost every aspect of the control program. Here you can discuss in contact with other users your problems.

2. Quick Start – Step 2: System Settings

2.1 Calling the system settings

To make the proper connection to your system, you must disclose to the program some important parameters.

Specifically, these:

- The digital system used
- the port on your computer
- and the number of feedback modules

Click in the central menu of **win-Digipet 2015 Programmer Edition** on the icon  System settings.

2.2 Setting the digital system

There appears a new window "System Settings" with the first tab, "Digital Systems".

On this tab, set the most important settings at the moment.

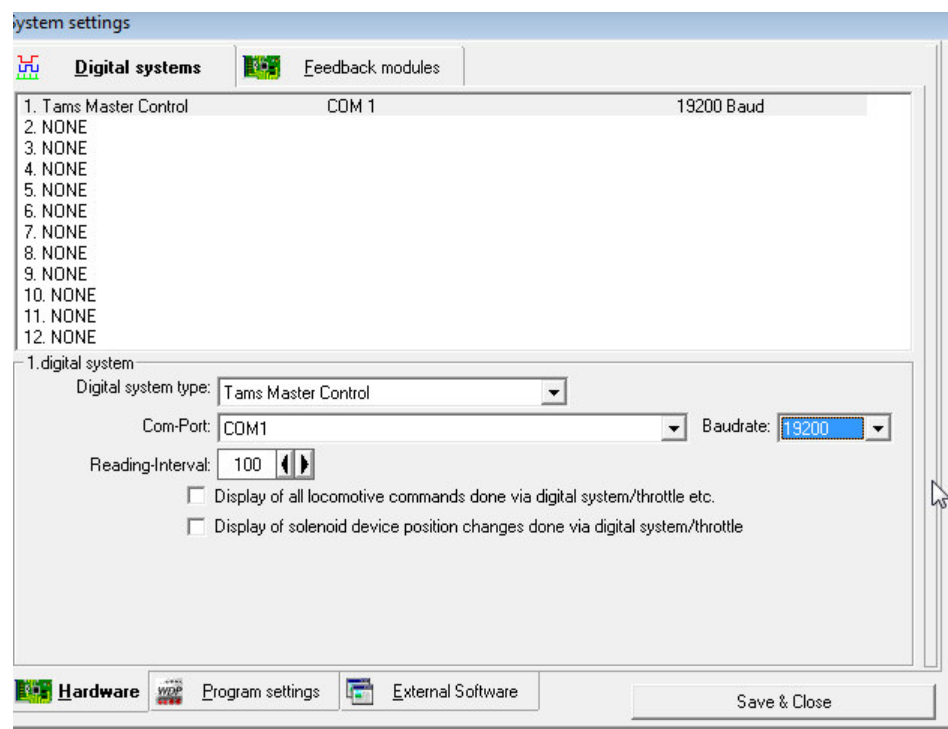


Fig. 2.1 The System setting window with the settings for the used digital system



In this Quick Start we use as example the settings for a system "Tams Master Control". The feedback modules have also joined in this example to this command station.

If you are using another digital system, see this information in chapter "System Settings" of the manual to detect the required settings for the digital system you are using.

- **Connected Digital Systems**

You click on the down arrow in the selection lists as 1. Digital System Tams Master Control.

- **Interface for digital systems**

Sixteen (16) serial ports (COM 1 to COM 16) for connection of digital systems are provided. Choose here from the lists for the digital system the appropriate interfaces and click on it.

Please note that Tams Master Control can be operated via a serial interface or via a USB port. For use with a USB interface, you must install in any case the manufacturer's drivers. This then emulates a com port that must be selected here in this list box.

We recommend that you always use the latest drivers from the manufacturer, please inform yourself about the latest versions from the manufacturer's website on the Internet.

- **Transfer rate for digital systems**

Select on the down arrow in the selection lists the transfer rate (baud rate) of the digital system. The baud rate (interface speed) is already automatically selected in the Tams Master Control with 19200 baud and should be adapted to 57600 baud. Do you have the Tams Master Control connected via a USB port, so when you start WDP the baud rate is automatically changed to 57600 baud.

All other values on this and on all other tabs can be left to **default values**.

After you have made the settings, click '**Save**' and then to close this window, click '**Close**'.

Significant changes in the hardware connections to the program require a restart of **Win-Digipet**. If You have entered now the digital system to control your model railroad, you are prompted to terminate **win-Digipet with** the following two dialogs (see Fig. 2.1), please confirm with the '**OK**' button or '**Yes**'

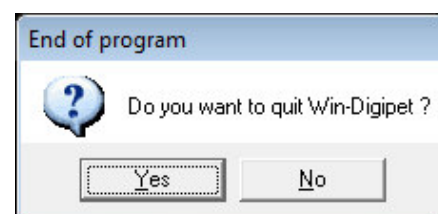
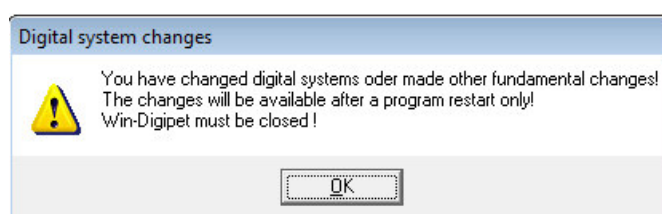



Fig. 2.2 dialogs after changing digital system for terminating **Win-Digipet**




At any time you can check proper connection to the digital system in the main program looking at the green icon . If this symbol is shown in red, you need to check the connection..



3. Quick Start – Step 3: Locomotive Control

3.1 Adjust the locomotive settings

Next, we will configure one of your locomotives for programming with **Win-Digipet**. Now click on the main toolbar, click the icon  to open the vehicle database..

In the first tab "Basic Data" of the vehicle database, enter the data of your locomotives.

In the beginning **Win-Digipet** stores two locomotives: a steam locomotive BR 80 and a Crocodile.

The most important settings of the BR 80, we will update below for a quick start to your "test locomotive".

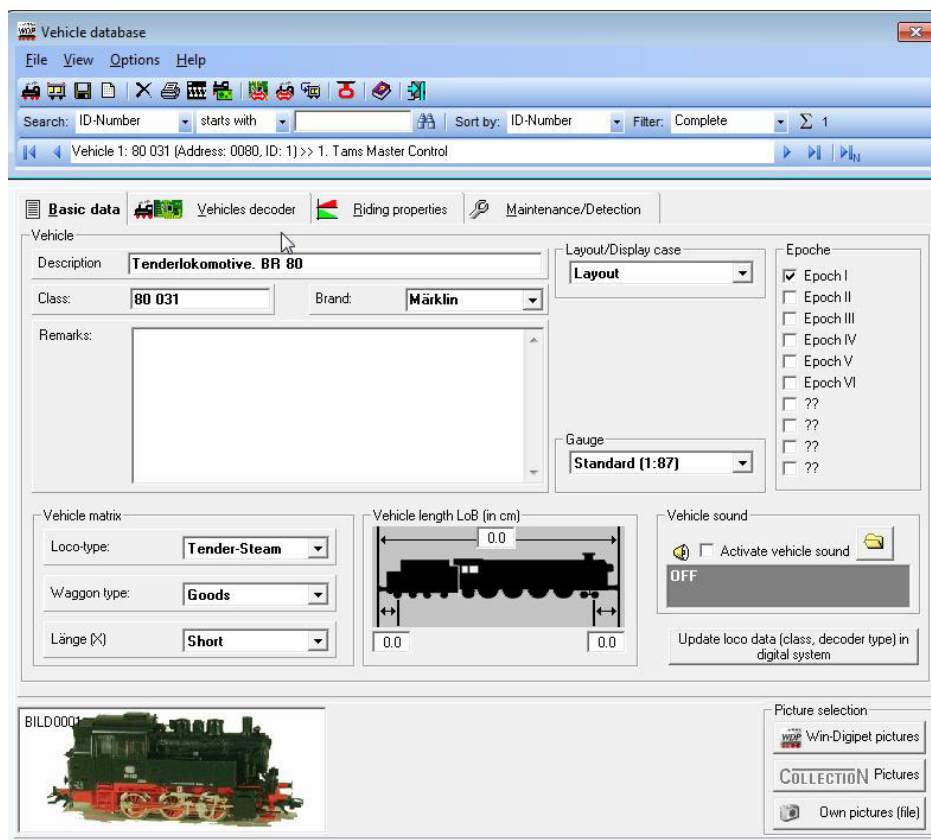
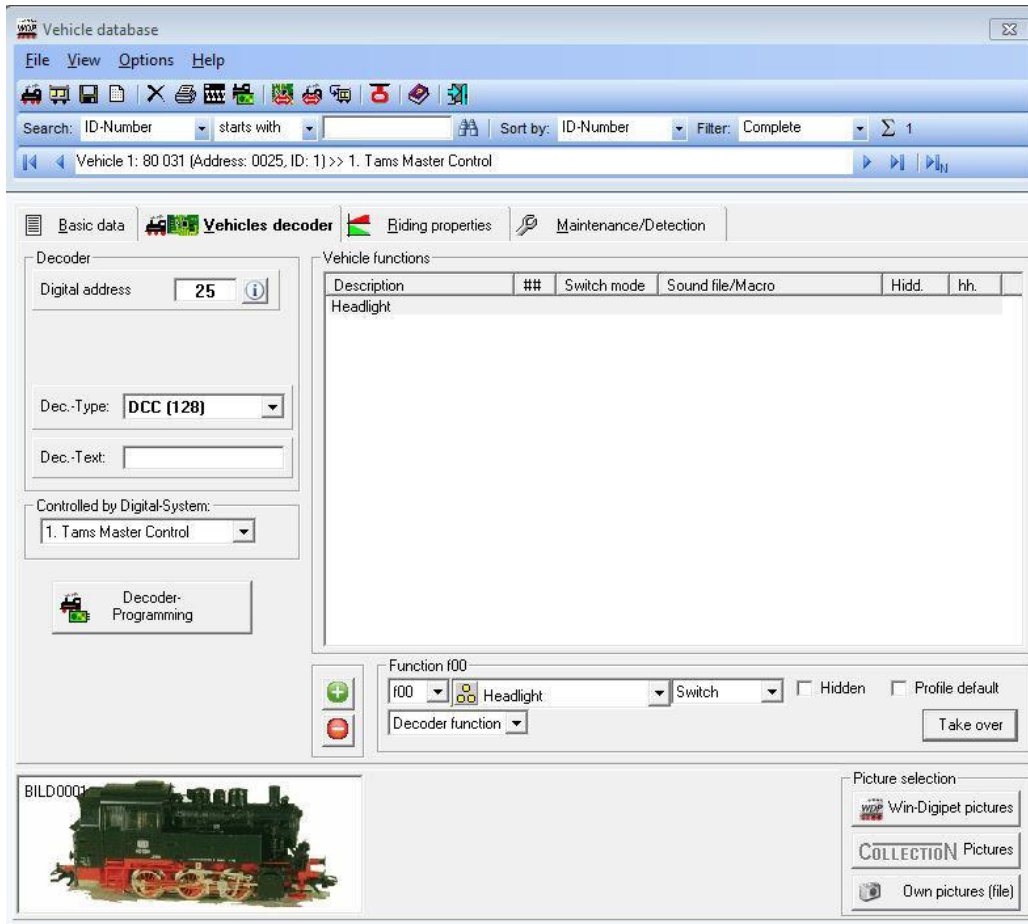


Fig.. 3.1 the window of the vehicle database with the basic settings of a vehicle tab

All default settings on this tab are irrelevant for quick entry and can be left.

Please select the **tab, vehicle-decoder** .

On this tab, the default address for the sample locomotive in the box "Digital Address" is 80 change the address of your test "locomotive" according with real address, in the example address 25, as amended. It is important that you adjust the data format of the built-in test locomotive decoder vehicle in the list box "type of decoder". Set the data format (protocol) in the list box for your "test locomotive", in this example, DCC (128).



For the purpose of the function f00 functions of the locomotive is already selected. In most cases, you turn this feature makes the headlights. Should your "test locomotive" be assigned a different function key with the lighting function, so you need to adjust it in the list box function, and **'confirm** with the **button Apply**. Other functions of the locomotive could be entered in this dialog, but for a quick start to the peak illumination function once sufficient.

On the other tabs, leave the default values for your test locomotive.

With Click on the scale of the speedometer in the Lok Control (see. Fig. 3.1 55 km / h) should then get your locomotive in motion immediately. The yellow pointer of the speedometer moves according to the acceleration setting until the red marked target speed has been reached.

Now test all other functions with the Lok Control by clicking the **Stop** button, **turn** and **function**.

Can you control your test locomotive with the locomotive controls?

"No!", And you should once again check the

- Specify settings for the log
- the registered address

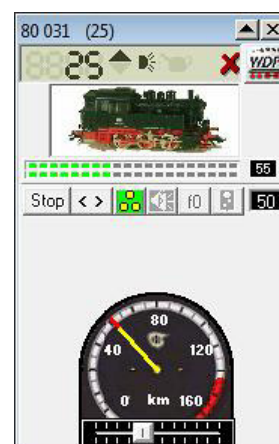


Fig. 3.1 Das Win-Digipet Lok-Control



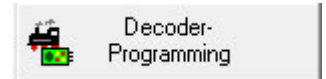
- and the settings for the digital system

Also, you should try if the test locomotive can be controlled directly with the digital system.

Did you have the control of your engine via the Lok Control?

Then you can save the vehicle database  and with a click on the icon  branch to the toolbar in the programming of the locomotive.

Alternatively, the program can also be started on using the button within ***vehicle-decoder*** '.



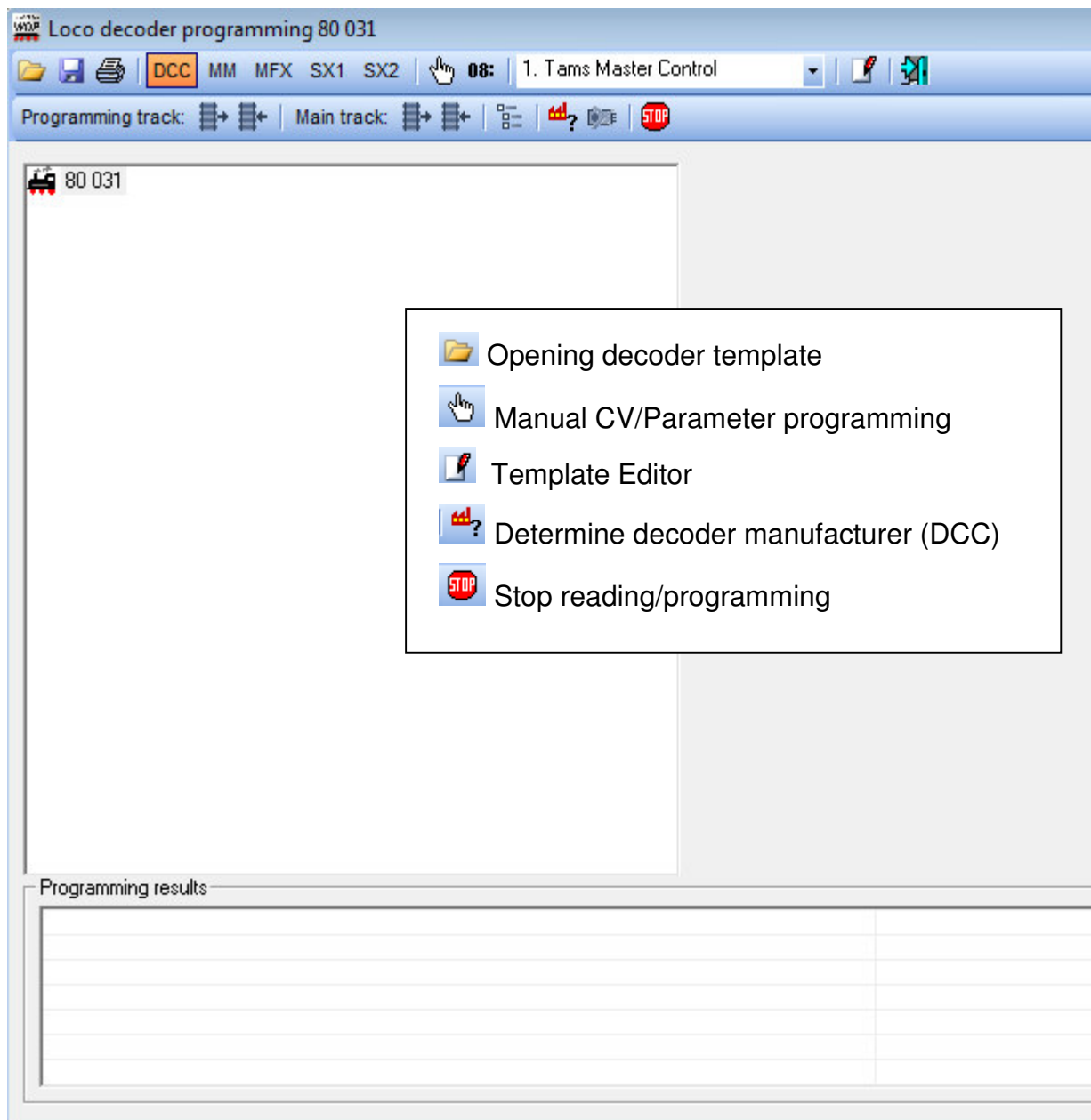
The LokControl remains open and during programming you can test the used locomotive with the new values set.



4. Decoder Programming

4.1 The programming window

The programming window was opened from the vehicle database. Currently no decoder is yet assigned. Therefore, all functions are not available and the corresponding button is inactive.




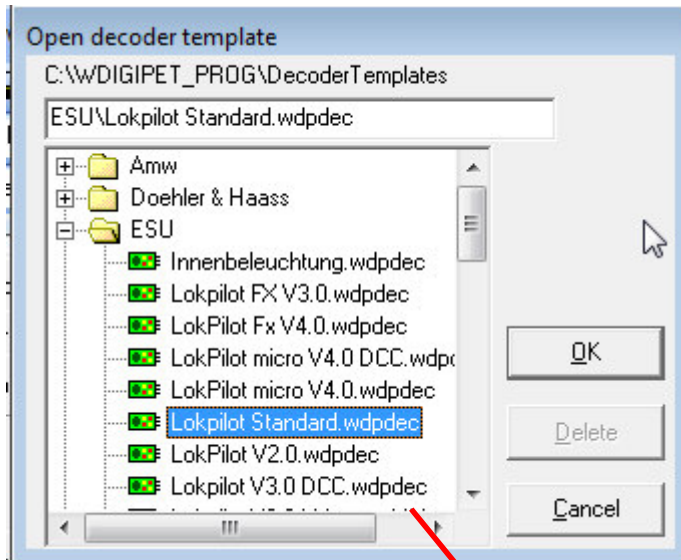
4.2 Select the decoder template


With **Win-Digipet** 2015 Programmer Edition templates are included for many types of decoders. Due to the large number of decoders is on the market it is not possible for each decoder a template supplied. The Template Editor can be used to create your own templates for other decoders.



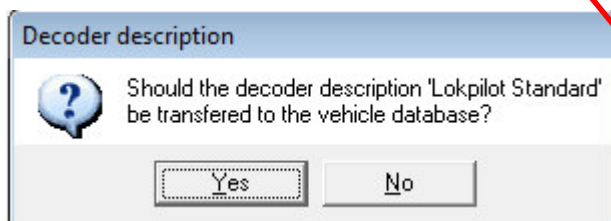
The decoder supplied templates are protected against accidental overwriting. If a **win-Digipet** be changed template, it must "save as" to be saved as a new file

Click on  to open the template selection.

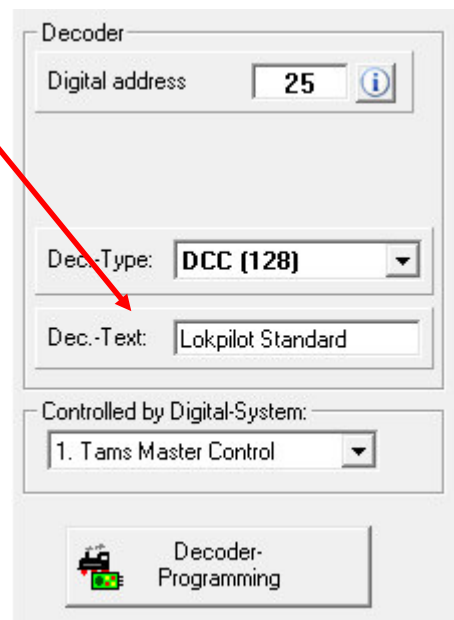


Select the appropriate template from the directory tree. In the example, the "Lokpilot standard". Apply the template by clicking  or double-click the template.

Win-Digipet now asks the name of the decoder is to be incorporated into the vehicle database.



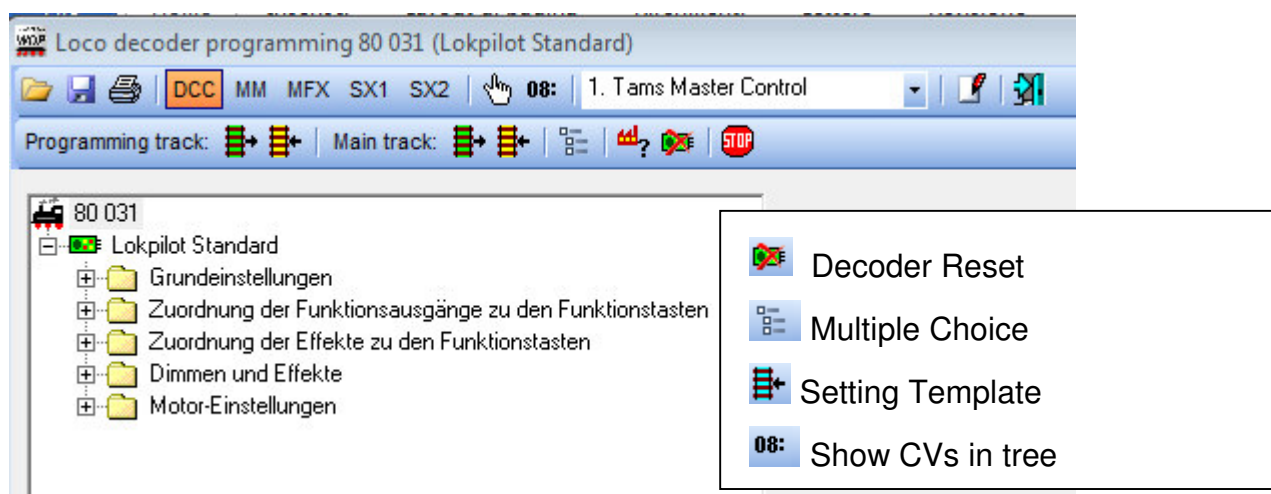
Since the entry is useful, click '**Yes**'.



The style has now been incorporated into the programming window.

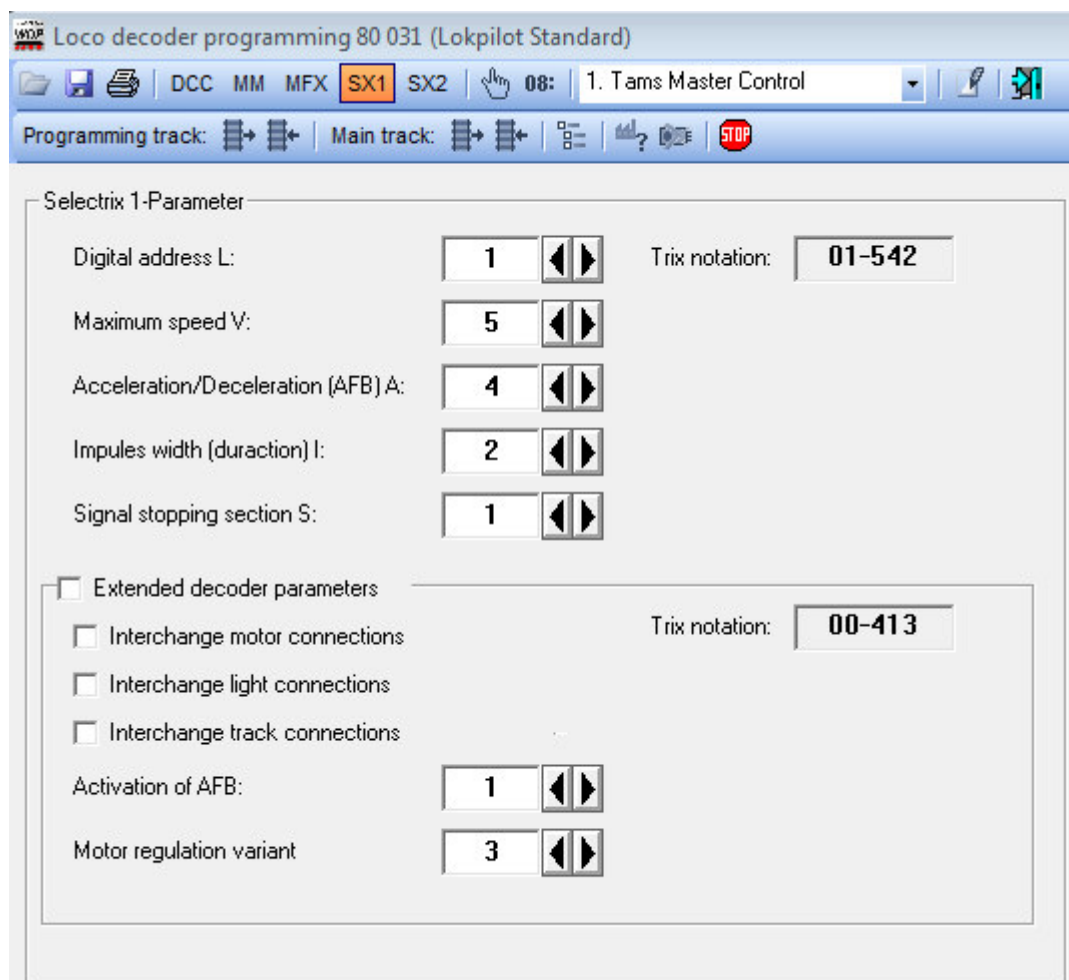


Now some buttons become active:




If it is a locomotive with an mfx decoder, so it is not necessary to select a decoder template. After selecting the programming mode "mfx" and the reading of the decoder, the document is automatically generated. If you select the programming mode "SX1" also does not need a template to be selected. The SX1 decoder parameters are always the same and will be available

Example SX1 parameters:





4.3 Selecting the programming mode

After selecting the template now, the programming mode will be selected. Since our Testlok has a DCC decoder, and the programming mode DCC selected . By choosing the programming mode, the corresponding read and write button become active depending on the unit and the decoder template. The Tams MC can read with DCC on the programming track and on the main track * and write. Therefore, all buttons are active:



SX 1 or 2 as well as the Tams MC mfx cannot program or is not supported by the decoder. Thus, then all buttons are inactive:

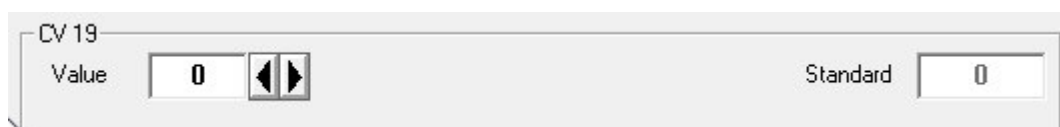


The appendix provides an overview of which programming mode the Center supports. What programming mode supports a decoder that is stored in the decoder template.

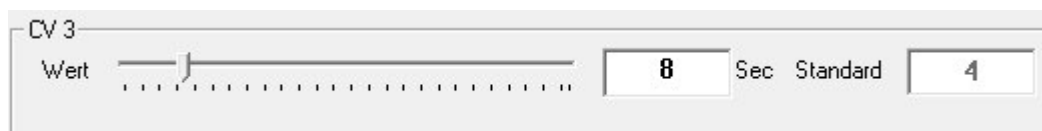
* The Tams MC reading is possible on the main track only by means of separate RailCom® components.

4.4 Display Types of CV or parameter content

The values of CV are depending on the content, presented in different ways. For example, as a decimal value. Here, the value can be entered directly.



Or as a decimal value with the slider. Here, the value can be influenced by the slider. Use the arrow keys ↓↑ to move the slider to single-step or to the image ↑ or image ↓ for five steps.





Another form of representation is the bit representation. Here, the value on the different selection fields is affected. (The bit number is displayed only when the button **08:** is active)

The screenshot shows the configuration window for CV 29. At the top, there are two input fields: 'Value' containing '12' and 'Standard' containing '12'. Below these are several options: an unchecked checkbox 'Umgekehrtes Richtungsverhalten', a dropdown menu set to '14 Fahrstufen', two checked checkboxes 'Analogbetrieb erlauben' and 'RailCom® erlauben', a dropdown menu set to 'Motorkennlinie durch CV 2,5,6', and another dropdown menu set to 'kurze Adressen (CV 1)'. A mouse cursor is visible at the bottom right of the window.

Surely you have noticed the **"standard"** in the previous pictures. Therein, the working value for this CV is stored, with which the decoder is supplied. So if you have something "completely adjusted", you can just take over by clicking on the **"Value"** field in this the default value.

4.5 Reading CV through the decoder template

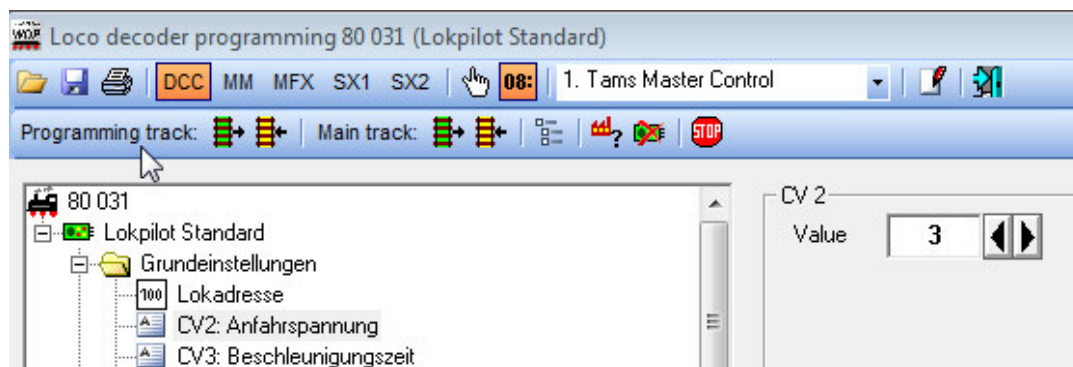
In the decoder Templates individual CV of the decoder are included. There are several methods for reading:

- Read / write single CV
- Read / write A group
- Read / write the entire decoder
- Several CV read / write on multiple selection

The various methods will be demonstrated by the example of our test lok. Open the Group **"Grundeinstellungen"** by clicking the Plus sign.

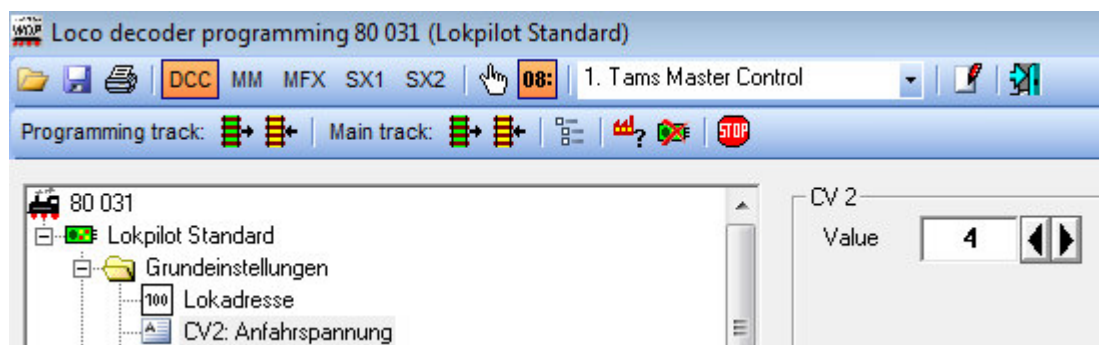
Read individual CV:

Click on the CV, which is to be read. Currently contains the value 3 in the CV to be read. If you now on only the corresponding CV read click

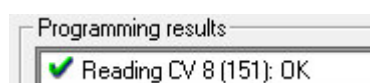




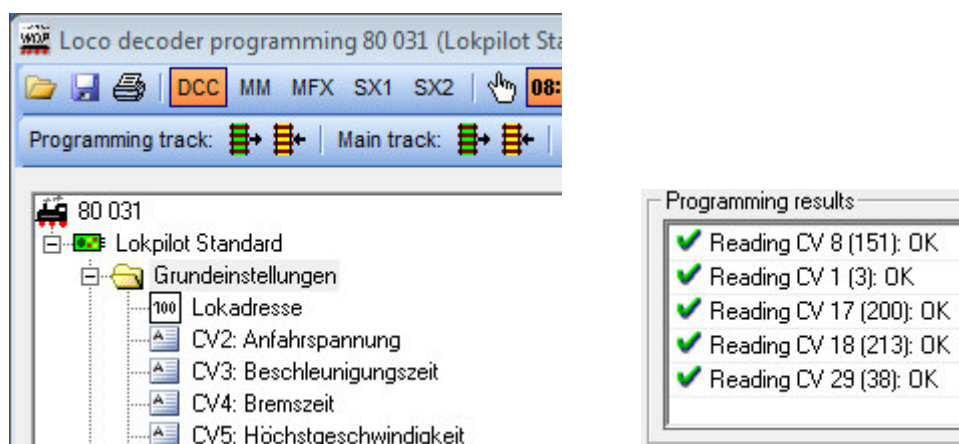
The result of the read operation is displayed.



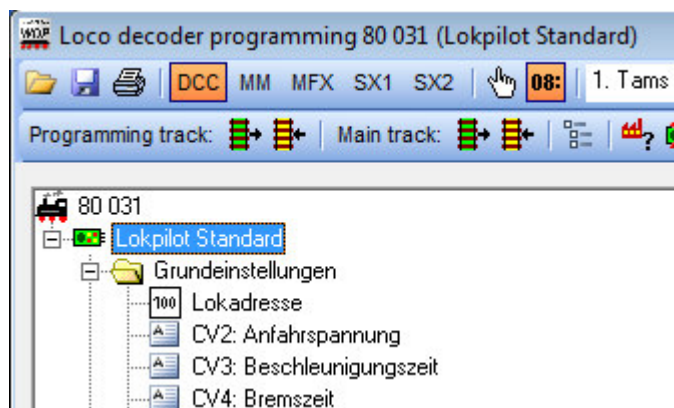
The read operation is logged in the **"Programming Results"** field



To read a group of CV complete, it can be clicked. Process read the start as usual with



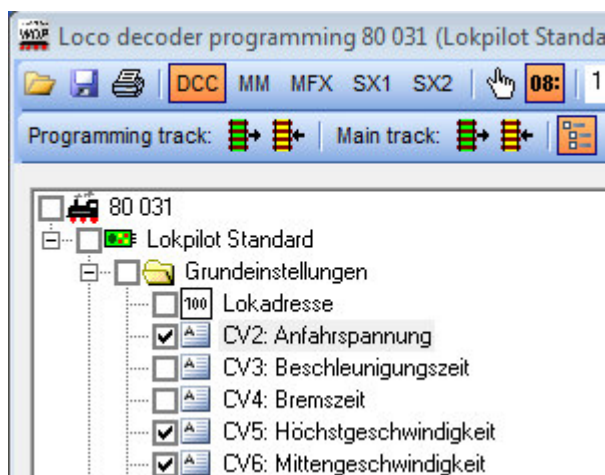
A decoder can also be read completely. For this purpose, the Decoder icon in the tree must be selected.



Note that the read of a complete decoder may take a while, especially on the programming track. The main track read moved over mfx or DCC (via RailCom) are usually faster.



If only some CV are to be read, but not equal to the whole group a multiple selection can be used. Just click on

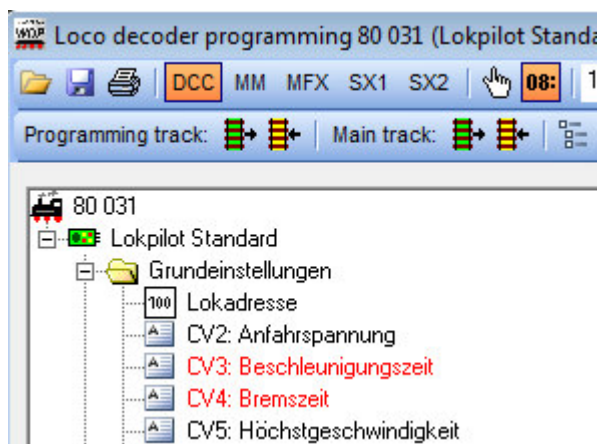


You can now click on the CV to be read and then read together.

The options presented here also apply mutatis mutandis for writing CV.

4.6 Writing CV via the decoder template

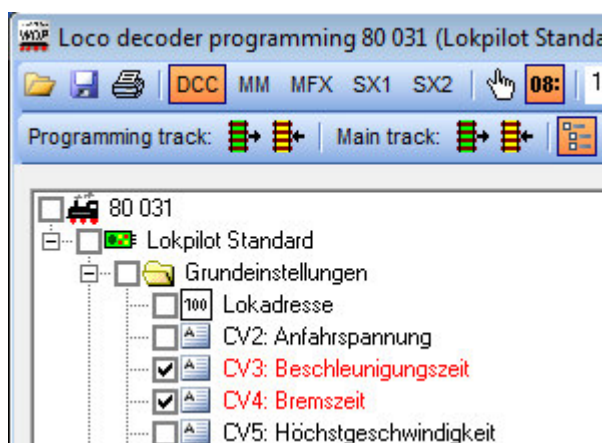
To select CV to be written, as mentioned in the previous chapter, we can use the same method used when reading CV.



There is the possibility to modify multiple CVs and automatically mark as changed in the selection.

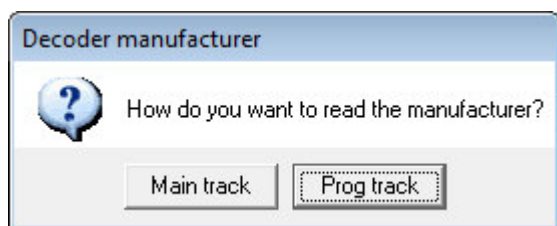
In this example, the values have been changed for CV3 and CV4. It is clear that changed CV are marked in red.

In order to accurately write only the modified CV, re-enable multiple selection. Just clicking on all changed CV, those marked in red, are automatically selected.



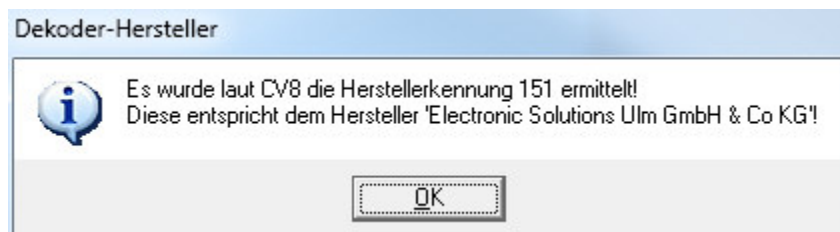
4.7 Read decoder Manufacturer

With the button you can read a DCC decoder manufacturer.





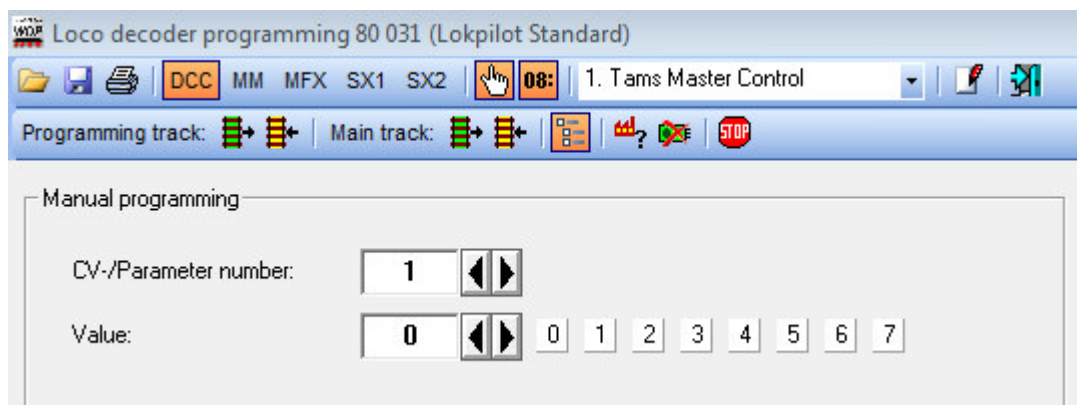
You will be asked if the decoder to be read should be on the programming track or the main track, if your current digital central will have both reading variants available.

The manufacturer could be read (the manufacturer code is stored in the CV8), it is displayed in a dialog box:

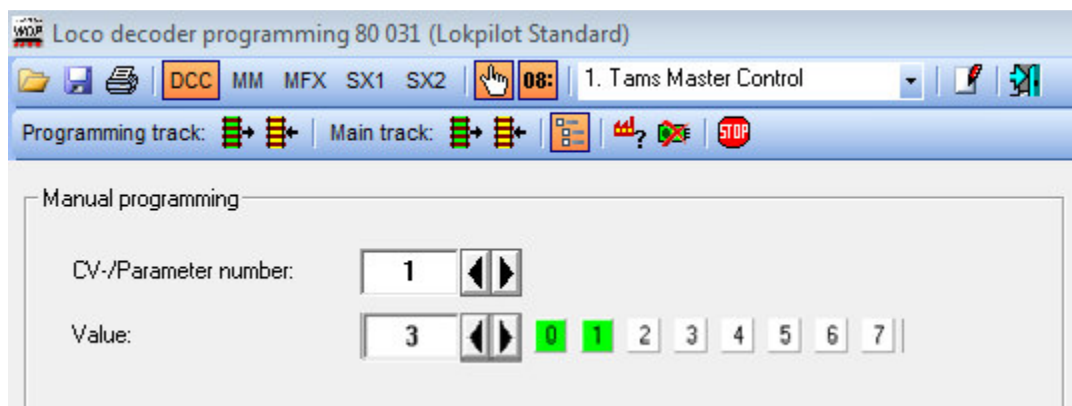


4.8 Manual programming of CV or parameter

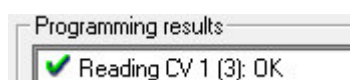
Enables individual CV or parameters can (under DCC) be read or programmed (under SX2), plus a decoder template must be loaded without it. Click on  to start the manual CV / parameter programming. In this example, the CV1 of a decoder is to be read. Do you contribute to the CV in the "**CV / parameter number**" field. Then click on the desired reading button (main or programming track) 




The CV is read and the value is displayed in the field.




The results of read operation is logged in the programming field

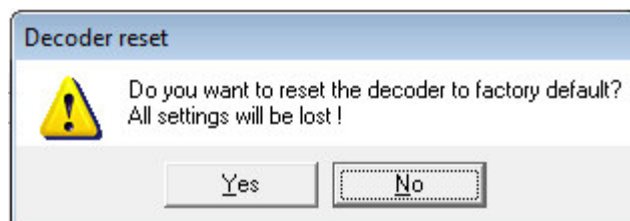


The same procedure is used to write a CV. In this case you must click the icon  **Writing**.

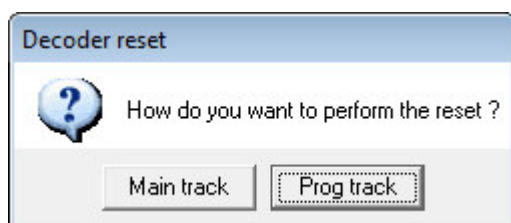
Click again  to exit the manual CV / parameter programming.

4.9 Reset the decoder to factory settings

With this function, a decoder reset to its factory setting can be. These must be entered in the decoder presentation with which CV (usually CV 8) can be reset to the decoder. Click on  to reset the decoder.




For safety reasons, a warning message is sent before executing the operation, if necessary, press NO to cancel.

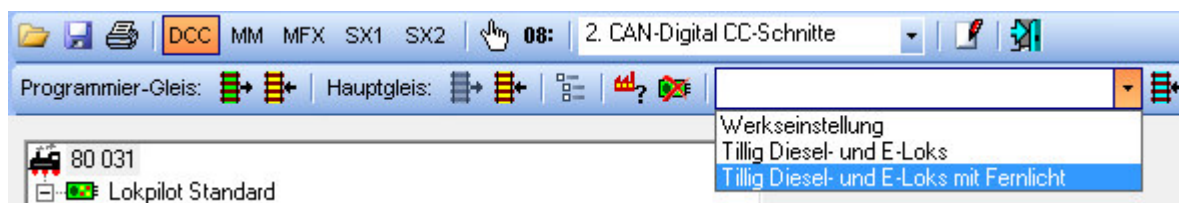


If confirm the operation, a question panel is displayed to choose where the reset must be performed.


Some decoders Report an error if the reset is performed, nevertheless the reset works.

4.10 Setting Templates

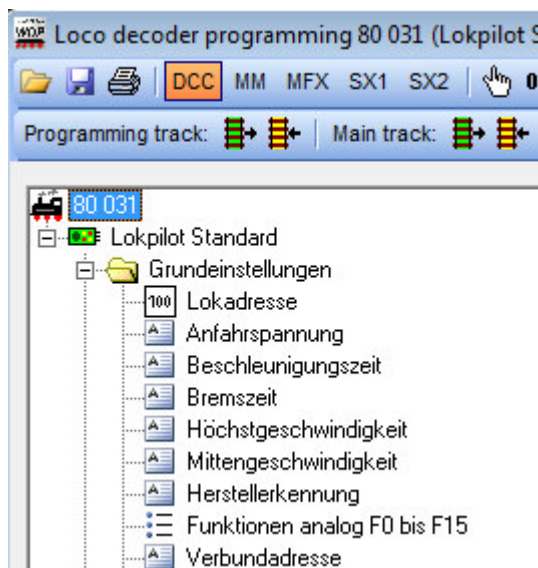
Some decoders also have so-called setting templates. By writing a single value in a particular CV certain settings are automatically set in the decoder. The decoder can be easily adapted to particular locomotive models. In this example, the default Lokpilot be adapted to the lighting functions of certain locomotives. This selection window is only available when the decoder template settings templates were entered. Select the desired template and click , to write the settings template in the decoder.



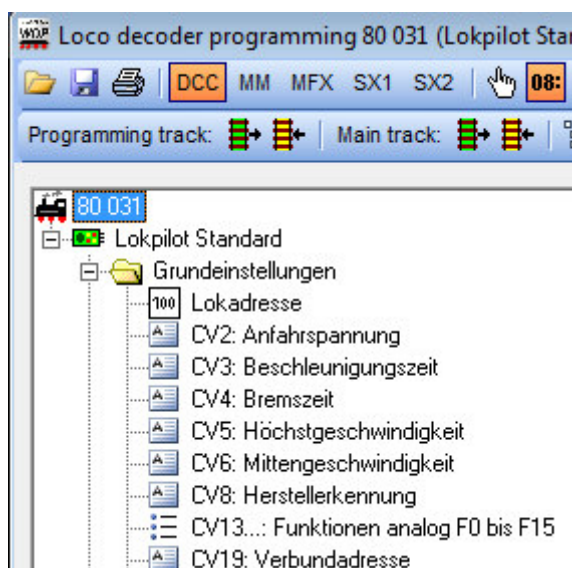
4.11 Display of CV numbers

In the decoder templates the individual CV meaning are described. Therefore, it is usually not necessary to know CV numbers. In the ground state the CV numbers are therefore not displayed in the programming tree. To enable the display of CV numbers, click :

Without CV-Numbers

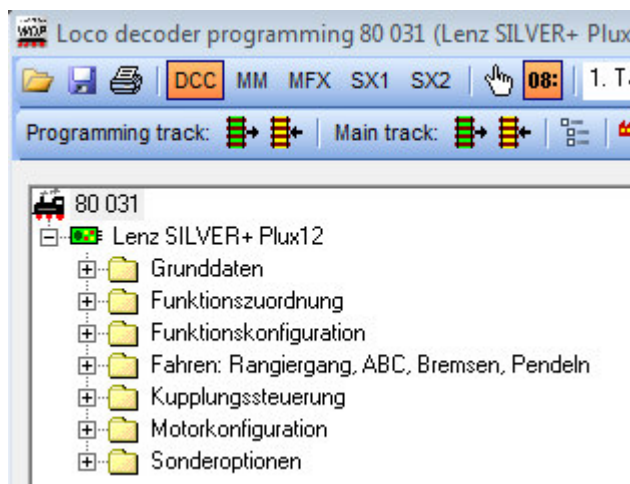


With CV-Numbers

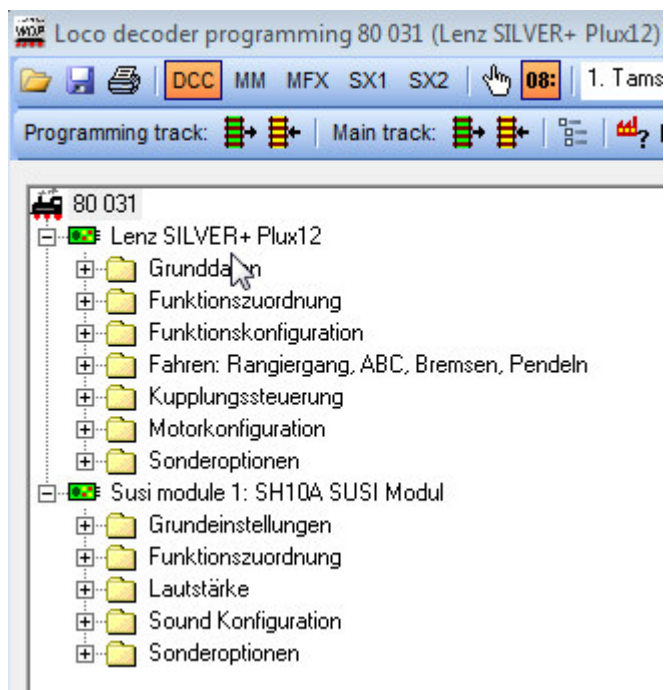



4.12 Lok with additional SUSI

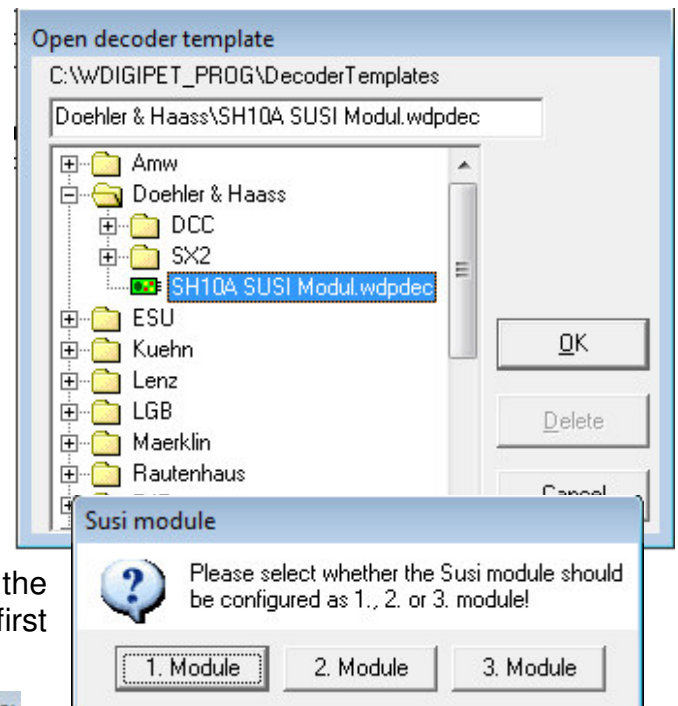
Many decoders have SUSI interfaces for connecting SUSI modules. This SUSI modules can be linked to the decoder and hence to read and program as well.



A decoder can be assigned up to three SUSI-modules, you must now specify the module number. In this example it is the first module.




The locomotive decoder is already assigned. Click on  to choosing the decoder Templates to open and select a SUSI module.

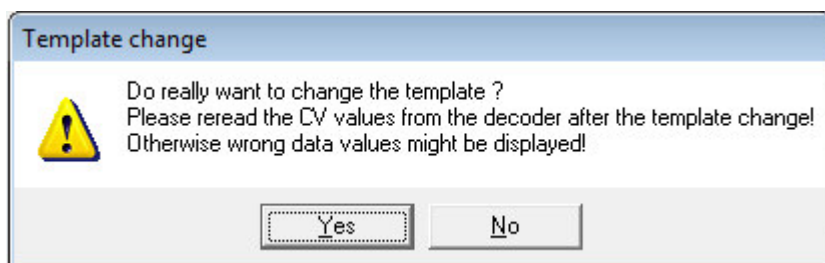



The SUSI module has been accepted. The (Read and write) processing of the CV is the same as for a regular decoder.

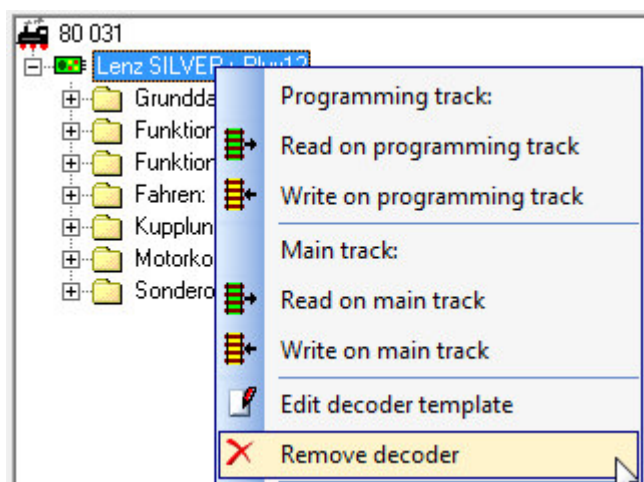
4.13 Switch Decoder Template

If a vehicle has assigned different decoder template, there are two possibilities.

Option 1: Simply load a different template using . Then all decoder data stored on the vehicle are transferred to the new template. This is only useful if the new template has a CV structure similar to the old. For example, if you have customized an existing template to your needs and stored with a new file name, and now you want to load template. For security reasons, you must confirm the target change.



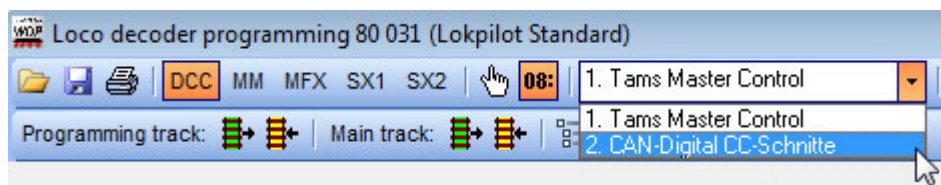
Option 2: Remove the old template. Have you installed in the vehicle another decoder, so the old template will be deleted from the vehicle. In this case, the old CV values are deleted and can then be re-read from the new decoder. Click with the right mouse button on the decoder, and then click .





4.14 Select a digital system for programming

First open the program for a vehicle, the digital system is taken from the vehicle database, which has been entered there to drive the locomotive. Use to program a separate digital system, this can be entered in the program window. The setting will be stored permanently for this vehicle. The digital system must have been naturally included in the system settings.




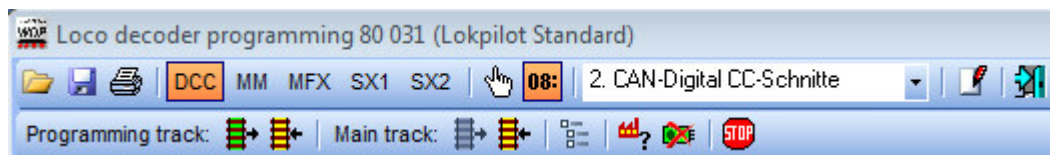


5. Decoder Template Editor

Win-Digipet 2015 Programmer Edition is shipped with an extensive templates library. Due to the large number of decoders on the market (and new ones are added regularly), it is not possible that really all decoders are included. For your decoder there is (at the moment) no decoder template available? No problem, using the Template Editor, you can create templates by yourself.


5.1 Create new decoder template

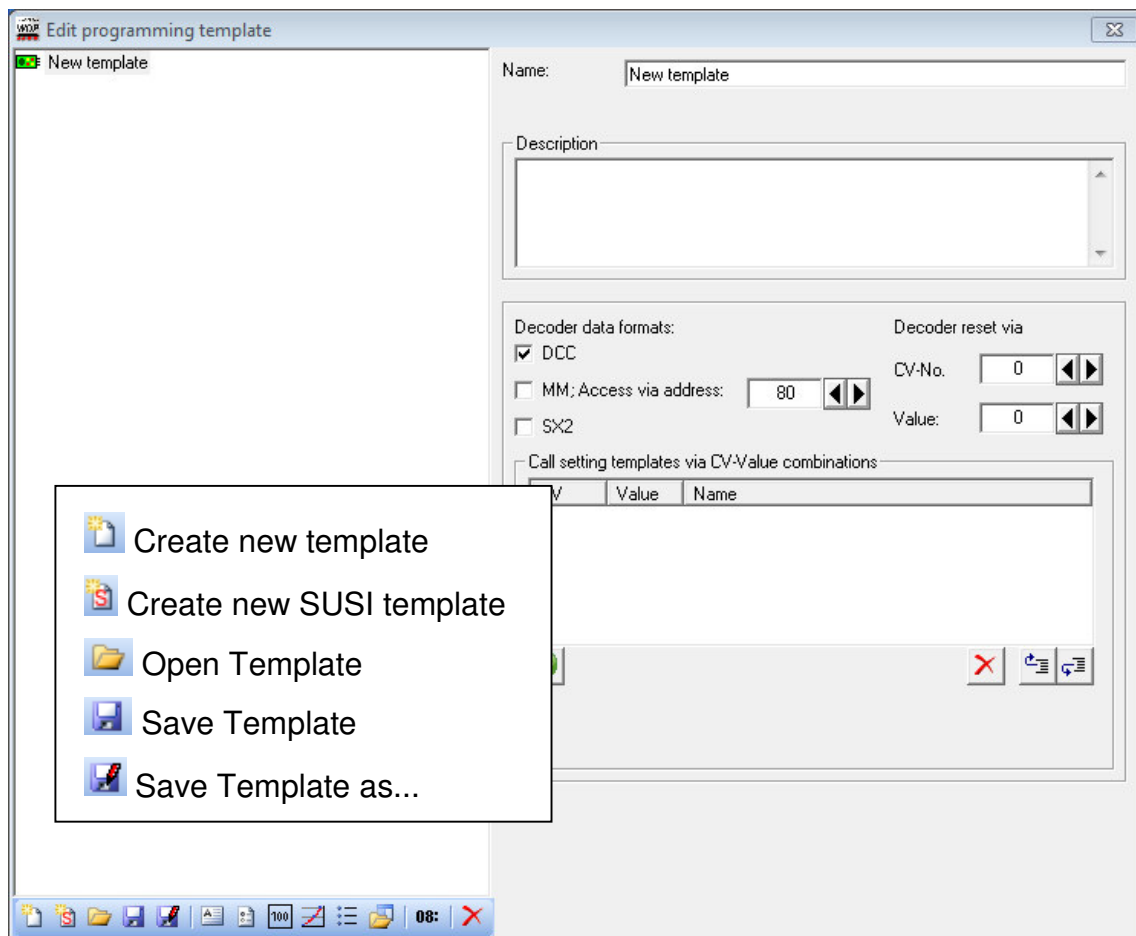
To create a new decoder template, click the icon  in the programming window



The Template Editor opens and the currently loaded document programming window is displayed in edit mode.



At the bottom left there are several command buttons. Click here  to create a new template. A new (empty) template is displayed.





5.2 Collect basic data of the decoder

The entry in the **Name** field will be later visible in the tree structure.

Name:

Description:

In the Description field, further loading descriptions can be captured. If the template for different decoder fits, can be entered here

Now the Programming Mode must be entered which can be used with this template. At Motorola, an address is needed to begin programming. This must be recognized when the template is available under Motorola are also available. This setting controls among other things, in Section. 4.3 Selection of described programming mode.

Decoder data formats:

☒ DCC

☐ MM; Access via address:


☐ SX2

Next, the body responsible for the reset CV and the required value is detected. Although the CV8 is normally responsible for, but unfortunately this is not for all the decoders. This entry is used for the reset function in the programming window (chap. 4.9)

Decoder reset via




CV-No.

Value:

Lastly, make the settings templates (Ch. 4.10) that can be recorded if the decoder has the corresponding function. With  a line can be added. In the lower part the CV number, the value and the label is then detected.

Call setting templates via CV-Value combinations

CV	Value	Name
8	8	Factory Defaults

CV-No. Value:


Name:

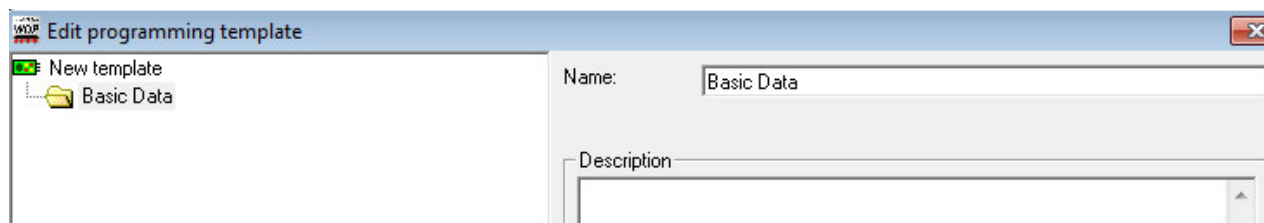
Thus the basic data are comprehensively covered




5.3 Capture decoder functions

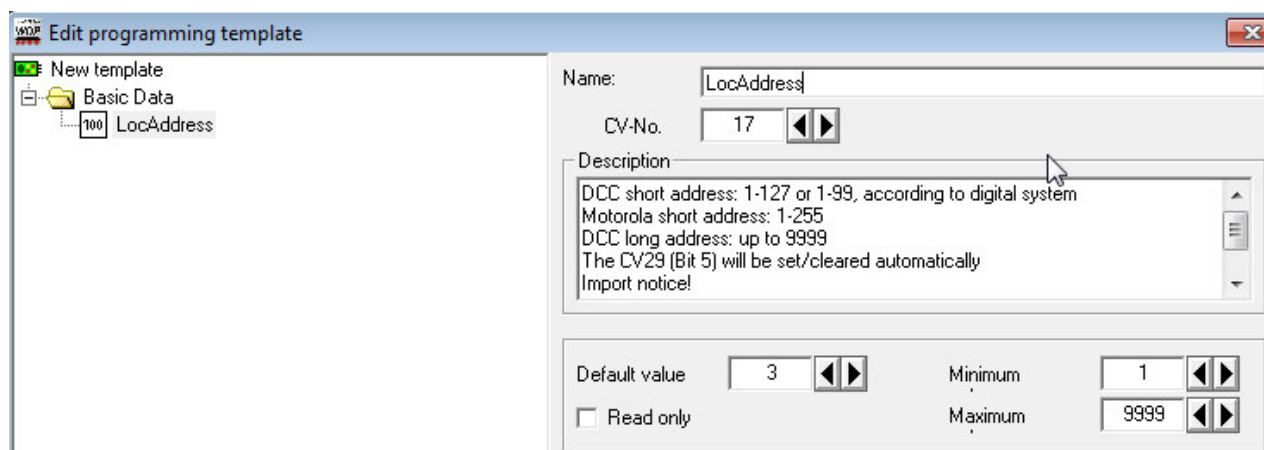
5.3.1 Create a Group

To understand the functions of a decoder CV all need to be entered in the template. Since the CV lists are sometimes very long, it is advisable to create groups. Just click on  and enter a name



5.3.2 Submit locomotive address

As the first entry, you enter the CV for the address. The address is distributed in DCC decoders for several CV. Therefore, there is a specific function for this to detect the DCC address. Just click on . All relevant entries are made automatically.





5.3.3 Submit CV-entry (number pad)

Now, a CV is to be registered with an input field in decimal. Just click on . Enter the name and adjust the default value (the basic value set for this CV), as well as the minimum and maximum value that is allowed for this CV. This information can be found in the user manual of the decoder.

5.3.4 Submit CV in bit representation

Next, a CV is to be recorded in bit representation. Just click on .

The bit representation is necessary because often several things can be configured in a CV. Therefore, in the bit representation there are different possibilities on how the values can be entered.

Checkbox: Bit 0: Test Checkbox

Selection field: Bit 1 = 0: Option 1

Number field: Bit 2-3: Numeric Field 3


Text: Text

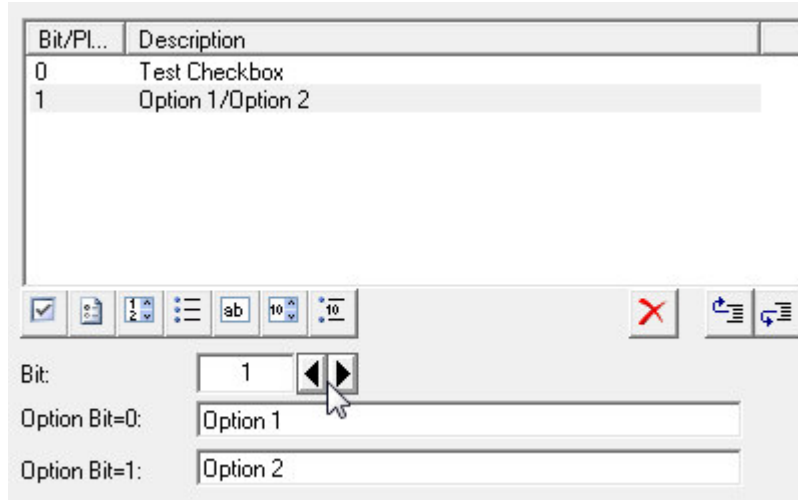
5.3.5 Insert Checkbox

First, a checkbox is to be inserted. Just click on . Select the bit that is to switch by the checkbox and enter a name



5.3.6 Paste Selection field (single bit)

Then the selection field to be inserted. Just click on .



Bit/PL...	Description
0	Test Checkbox
1	Option 1/Option 2

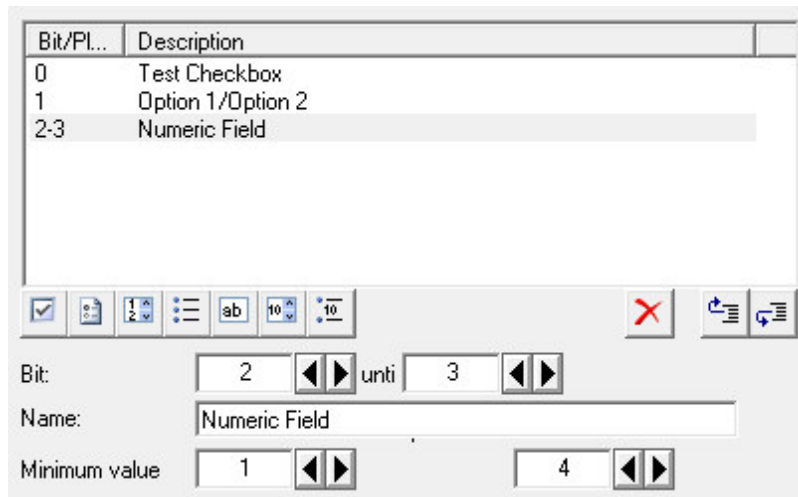
Bit: 1

Option Bit=0: Option 1

Option Bit=1: Option 2

Enter the name of the two options, to be switched by the selected bit.

5.3.7 Insert number field



Bit/PL...	Description
0	Test Checkbox
1	Option 1/Option 2
2-3	Numeric Field

Bit: 2 unti 3

Name: Numeric Field


Minimum value 1 4

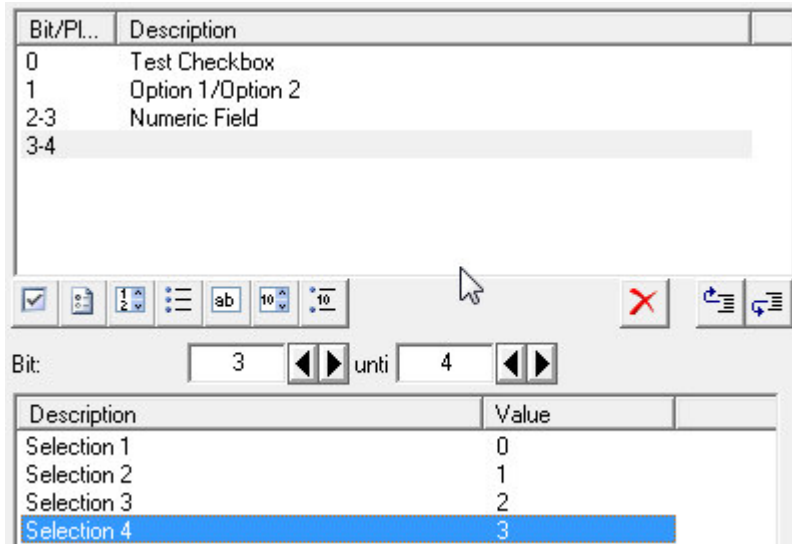
Now, a numeric field to be entered.

Just click on .

Enter again the bits that are to be connected with this number field, and the name of it. The minimum and maximum value limits for the input options. In the example, only 2 bits were added to bit 3, so there are only four certified values.

5.3.8 Paste Selection field (several bits)

Now is a choice field for several bits to be inserted. Just click on 



Bit/PL...	Description
0	Test Checkbox
1	Option 1/Option 2
2-3	Numeric Field
3-4	

Bit: 3 until 4

Description	Value
Selection 1	0
Selection 2	1
Selection 3	2
Selection 4	3

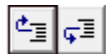
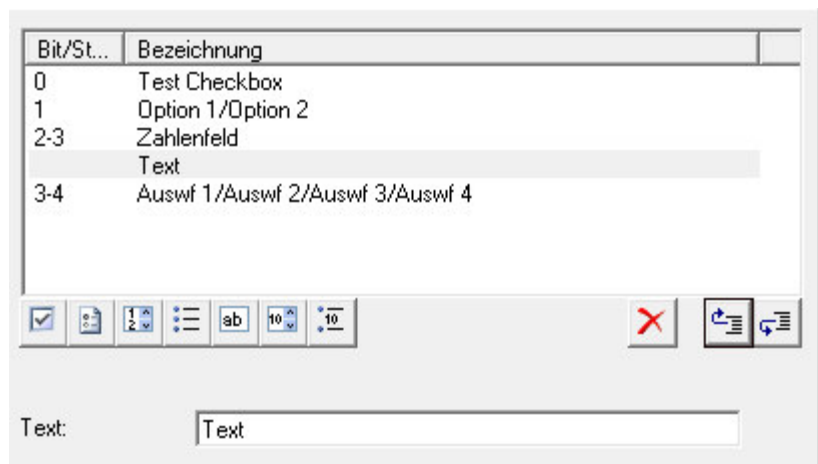
Enter the bits that are to be connected with this selection field, as well as the names of the various selection options.

5.3.9 Insert Text

Sometimes it is useful to add a text. So you can make the presentation more clear.

Just click on 

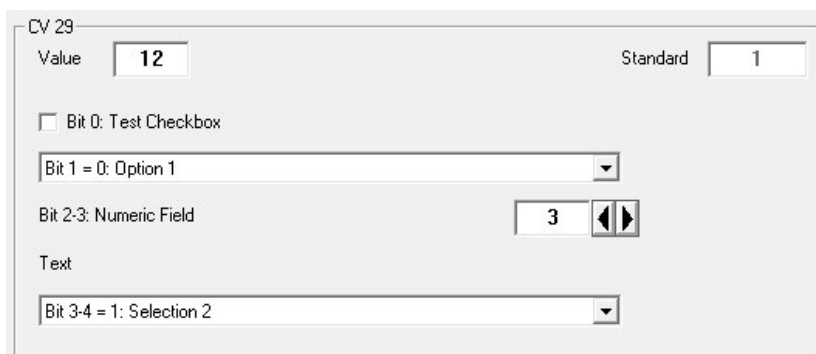
All inserted items can be moved up or down in the list using the buttons.

Bit/St...	Bezeichnung
0	Test Checkbox
1	Option 1/Option 2
2-3	Zahlenfeld
	Text
3-4	Auswf 1/Auswf 2/Auswf 3/Auswf 4

Text: Text

The following figure shows our newly created CV in the Programmer's pane:



CV 29

Value: 12 Standard: 1

☐ Bit 0: Test Checkbox

Bit 1 = 0: Option 1

Bit 2-3: Numeric Field 3

Text

Bit 3-4 = 1: Selection 2



5.3.10 Submit units, tens and hundreds

For some decoders various functions are stored in a CV using Units, Tens, hundreds position.

Bit/Pl...	Description
E	Dimming Exit 1
Z	Dimming Exit 2

Decimal place(s): Decade

Name: Dimming Exit 2

Minimum value: 0 9

In the example, an output is dimmed with the units place, another with the tens place.

Click on to add this feature. In this case, the presentation is as a decimal programming window.

With can also select fields to be created for this function.

The CV just created using the units, tens or hundreds function:

CV 30

Value: 1 Standard: 1

E: Dimming Exit 1 1

Z: Dimming Exit 2 0

5.4 Submit velocity characteristic

Many decoders have a velocity curve to adjust for the individual gears each speed. The CV67 to 94, in which the characteristic curve is stored, is to be inserted pressing the button :



WDP Edit programming template

New template

- Basic Data
 - LocAddress
 - Start voltage
 - NewCV
 - Dimming
- Motor Settings
 - Speed curve

Name: Speed curve

CV-No. 67

Description

Individual speed curve, active as soon as CV 29 Bit 4=1


Default values speed curve

Point	Value
1	1
2	10
3	20
4	29
5	39
6	48
7	57
8	67
9	76
10	86
11	95
12	104
13	114
14	123







Value 1

☐ First and last speed value is fixed and can not be changed

5.5 Multiple bit configuration



Some decoder, for example when mapping function, may represent functions with more than one bit. Therefore, more than one CV may be used to reflect the assignment of the functions. Click on 

Name:



CV-No.   ☒ CV31/32    





Description
Setting the condition under which this row is to be active

Bit	Description	Standard
0	Loc Direction	0
1	Lok steht	1
2	Richtung ist Vorwärts	1
3	Richtungs ist Rückwärts	0
4	Taste F0 ist An	0
5	Taste F0 ist Aus	0
6	Taste F1 ist An	0
7	Taste F1 ist Aus	0
8	Taste F2 ist An	0
9	Taste F2 ist Aus	0
10	Taste F3 ist An	0
11	Taste F3 ist Aus	0
12	Taste F4 ist An	0
13	Taste F4 ist Aus	0
14	Taste F5 ist An	0
15	Taste F5 ist Aus	0
16	Taste F6 ist An	0
17	Taste F6 ist Aus	0

Bit:  

Name:

Standard:  







The functions of the individual bits can be detected in order here. The bit numbers are continually incremented, with 8 bit addition. In the example, the CV273 is the start CV. The bit 1 to 8 belong to this CV. Bit 9 is the bit 1 of CV274 etc.

Multiple bit configuration is only possible with continuous CV numbers.

5.6 CV number with index

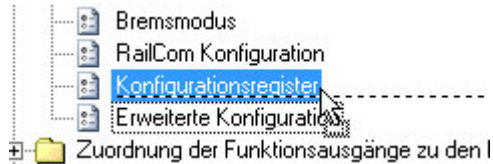
CV numbers above 255 can be used in the decoder. In order to access them it is necessary to use the Index CV (CV31 and 32). If you capture such a CV, you can use the corresponding index register CV along with it. In the programming window that index-CV are respectively inserted in front of every read and write.

Name:

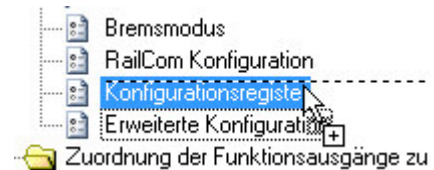
CV-No.   ☒ CV31/32    

5.7 Move or copy CV

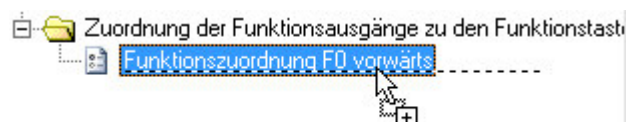
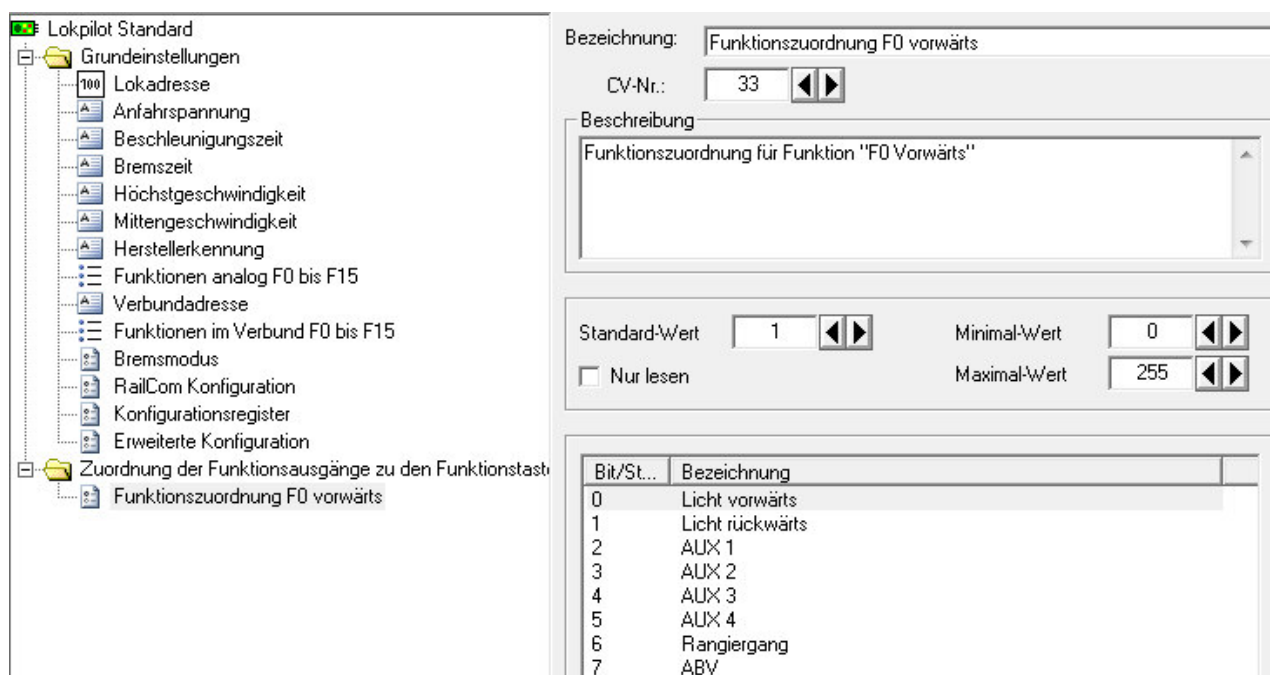
Individual CV can be moved easily with the mouse. Click to various CV- description with the left mouse button. The CV can be moved with the mouse to another position. The dashed line indicates where the CV is inserted after releasing the mouse button.



If when you click the CV pressing in addition the "Ctrl" key, the CV will not be moved but copied. On mouse pointer small "+" sign will show a copy execution.

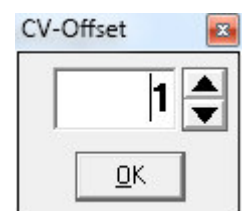


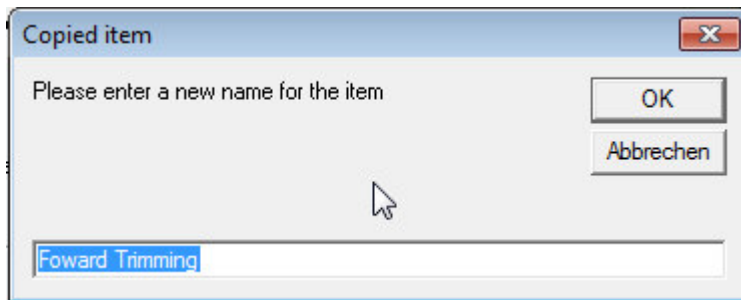
Another convenient function is able to copy a CV increasing the CV number. For example, the CV for function mapping are virtually content-identical. Usually only the CV description must be adjusted. In the example, the CV 33 has been detected. The CV 34 is identical in content, but just for F0 backward



Press "Ctrl" and "Shift" simultaneously and then click the CV33 and drag them with mouse button down a bit.

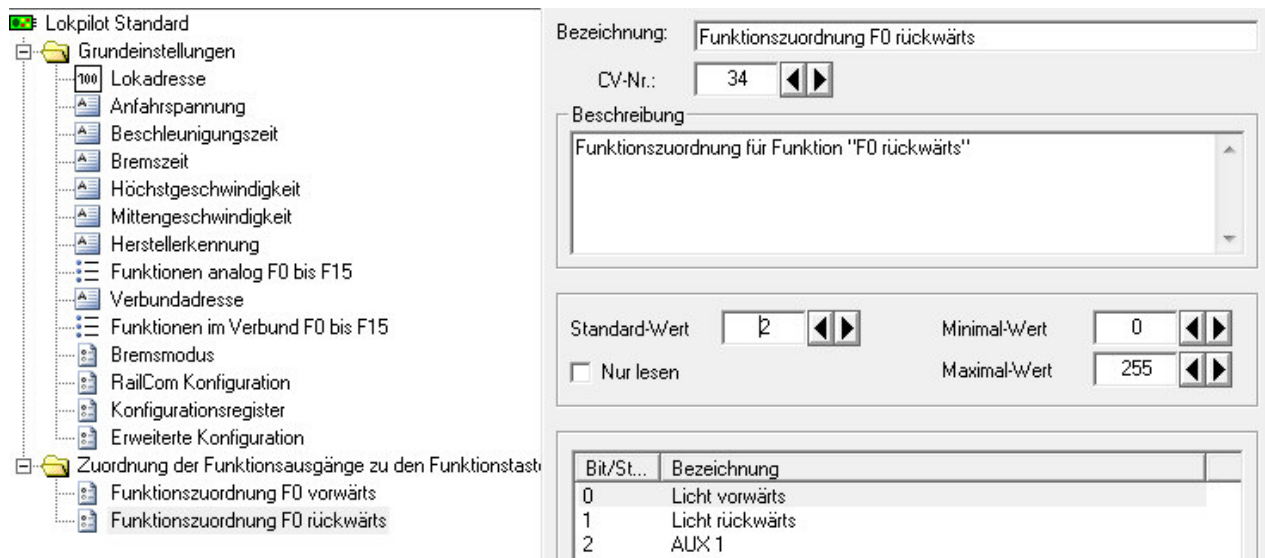
When you release the mouse button, you will be prompted for the CV offset, it represent the value to add to the original CV index to create the new one. In this example to create CV34 we need an offset of 1.






Now a panel is open to set the identifier of the new CV modifying the original CV identifier.


The CV was copied. Ensure that the description or the default value may be adjusted.




5.8 Save decoder template

To save the settings, click , Save your new template using an appropriate name. Your template can now be used as included templates.

5.9 Change decoder template

You can change created template (identified by the file extension `usrdec`) at any time. Open the Template Editor, select the desired template with . After changing the template it can be saved as normal.

If you change an included template (identified by the file extension `wdpdec`), you cannot save it directly because these templates are read-only. Therefore, use the command **"save as"** .



The "Quick Start" is now complete.

The possibility, for example, to set up a test measuring track for the locomotive was deliberately left out of this document.

Please refer to the relevant sections of the manual for the Premium Edition.

Enjoy your work with the **Win-Digipet** 2015 Programmer Edition!