

Until now, each DCC CV could only be read out once in RocPro and saved in the locomotive-specific CV table.

This is also sufficient for the CV range from 1-255.

From CV 256 onwards, identical CVs are increasingly being assigned different functions. The decoder manufacturers use index CVs 31 and 32 for this purpose. Even previously standardized CVs such as CV 7 (decoder type) are no longer stored there with ESU since Lokpilot 4.0, but in CV 261 with index CV 32 = 255.

After adapting RocPro to these requirements, it is now possible to read and write the CV range from 256 with several identical CVs and different index values.

The XML files Lp40.xml and Lp5.xml are used for ESU decoders for this purpose.

If you do not need the CV value range from 256, it is better to use the previous XML file Lp4Lp5.xml for ESU decoders.

Please note that the specified default values for CV31 and CV32 are written before use.

This also applies to decoders from other manufacturers (e.g. Tams).

As a rule, there are no multiple CV definitions with different index values. The "DCC Index" option in RocPro can therefore remain "OFF".

Procedure for using XML files with index in RocPro

- Select the desired XML file in Rocpro or locomotive table and assign it to the locomotive.
- Select the "CV" tab in the locomotive table of the locomotive.
- Delete any existing table entries.
- Copy the CV sequence from the selected XML file (located at the top of the XML file) into the CV field of the locomotive table.
- Save with the "Apply" button.

- Place the locomotive on the programming track.
- Set the "DCC Index" button to ON in RocPro.
- Start reading out the CVs with the "Read all" button.

CV 999 "Read out successful" is a pseudo/control CV. If this is displayed in RocPro after a "Read all", the read-out process has been completed.

If the read-out process is interrupted, press the "Read" button (not "Read all" again).

The read process is then continued. This can occur several times and probably depends on the control panel used.

How long does the read process take?

Below are some reference values. All determined with Märklin CS2.

Readout speed

Template CV's DCC index Time

Lp4Lp5 100 OFF 150 sec

Lp5 170 ON 450 sec

mfx3 329 ON 135 sec

OFF 105 sec

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