

THE MEASURABLE DIFFERENCE.



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OXYGEN Training > CPAD Decoder Plugin





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CHANNEL SETUP

- 1 Go to the Channel List and open the channel settings of the CAN bus the CPAD is connected to
- 2 Select the Baud rate of the CPAD
- 3 If you don't know the CPAD's Baud rate change the Baud rates until the Frame Preview shows alternating Message IDs and frames
- 4 Make sure that the CAN bus is terminated with a 120 Ohm resistor or set the internal module termination to *True*
- 5 When the Baud rate is set up correctly press *Add decoder*

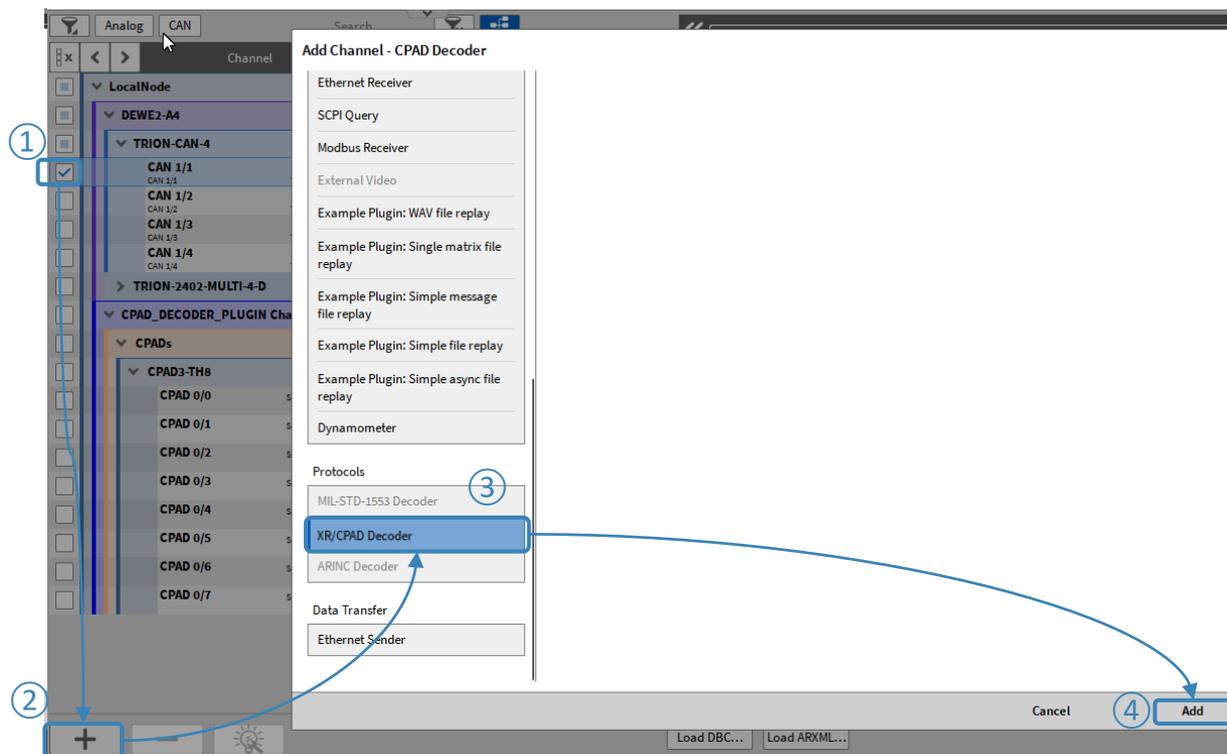
The CPAD Decoder plugin can be used to set up and decode channels of a CPAD without loading a dedicated dbc-file

The screenshot shows the DEWETRON software interface. On the left, the 'Channel List' is visible under 'LocalNode' > 'DEWE2-A4' > 'TRION-CAN-4'. Four channels are listed: CAN 1/1 (blue), CAN 1/2 (red), CAN 1/3 (green), and CAN 1/4 (purple). A circled '1' is next to the CAN 1/1 channel. On the right, the 'PORT CONFIG' settings for CAN 1/1 are shown. The 'Baud rate' is set to 500000 Baud (circled '2'). 'Listen only' is False, 'Termination' is True (circled '4'), and 'Autonomous Resend' is False. The 'Timestamp' is set to 'AD Sample Rate' (circled '5'). Below the settings is the 'FRAME PREVIEW' section, which shows a message ID of 0x360500 (circled '3') and a table of alternating message IDs and frames.

	7	6	5	4	3	2	1	0								
0	0	7	0	6	0	5	0	4	1	3	0	2	0	1	0	0
1	0	15	0	14	0	13	0	12	0	11	0	10	0	9	1	8
2	0	23	0	22	0	21	0	20	0	19	0	18	0	17	0	16
3	1	31	1	30	1	29	0	28	0	27	1	26	1	25	0	24
4	0	39	0	38	0	37	0	36	1	35	0	34	0	33	1	32

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Remark: Instead of Pressing the Add Decoder button, the CPAD Decoder can also be added by selecting the respective CAN bus, pressing the „+“ button and selecting the „CPAD Decoder“ from the list.





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- 1 After creating the CPAD Decoder, the detected CPADs and their channel can be found in the channel list
- 2 If desired, the referring CAN port can be changed (i.e. when a CPAD is connected to a different port)
- 3 The configuration of the CPAD can be saved into a *.dbc - file
- 4 The module baud rate can be changed here as well.

If one of several connected modules cannot be found in the list it has most likely a different baud rate than the others.

Change the CAN bus baud rate until the missing module is detected and change the module baud rate to the desired baud rate.

You can disconnect all modules but the missing module for an easier workflow here

The screenshot displays the software's channel configuration interface. On the left, a 'Channel' list shows 'LocalNode' expanded to reveal 'CPAD_DECODER_PLUGIN Channels', with 'XRs/CPADs CAN 2/1@[RemoteNode]' selected and circled with a blue '1'. To the right, the 'PROPERTIES' panel for this channel shows 'Input channel' set to 'CAN 2/1@[RemoteNode]' (circled with a blue '2') and 'Baud rate' set to '50000 Baud' (circled with a blue '4'). A 'Browse...' button next to the 'DBC file path' field is circled with a blue '3'. Below this, a file explorer window is open to 'D:/DATA', showing a file named 'CPAD3-TH8_44528.dbc' selected in the 'File name' field, with the file type set to '*.dbc'. A blue arrow points from the 'Browse...' button to the file name field, and another blue arrow points from the file name field to the 'Save' button in the file explorer's footer.



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CHANNEL SETUP

- ① Module specific information can be found but here. The CAN ID Type can be modified (Extended / Standard)
- ② CAN Address can be changed in the CPAD properties
- ③ Channel specific settings can be found and edited in the individual Channel Setup
- ④ The module's sample rate can be changed in the Sample Rate column of the Channel List

The image displays four screenshots from the DEWETRON software interface, illustrating the steps for channel setup:

- Top Left:** Shows the 'Channel' setup window for 'LocalNode'. The 'CPAD3-TH8' channel is selected. The 'Type' dropdown menu is open, showing options: 'EXTENDED', 'STANDARD', and 'EXTENDED'. A blue circle '1' highlights the 'Type' field.
- Top Right:** Shows the 'Channel' setup window for 'LocalNode'. The 'CPAD3-TH8' channel is selected. The 'CAN address' field is highlighted with a blue circle '2' and contains the value '0x33554430'.
- Middle Left:** Shows the 'Channel' setup window for 'LocalNode'. The 'CPAD3-TH8' channel is selected. The 'Range' field is highlighted with a blue circle '3' and contains the value '1372'.
- Middle Right:** Shows the 'Channel' setup window for 'LocalNode'. The 'CPAD3-TH8' channel is selected. The 'Sensor type' field is highlighted with a blue circle '3' and contains the value 'TC Type K'.
- Bottom:** Shows the 'Channel List' table. The 'Sample Rate' column is highlighted with a blue circle '4'. The table lists channels and their properties:

Channel	Sample Rate	Range	Scale
CPAD3-TH8	10 Hz	23.999054	AVG
CPAD 0/0	10 Hz	1372.0000	AVG
CPAD 0/1	10 Hz	1372.0000	AVG
CPAD 0/2	10 Hz	1372.0000	AVG