

MKP Parts

A supplier of stature!

DTCO SIM Interface

Tachograph simulator programming tool



The “MKP DTCO SIM IS” is an interface to program the tachograph simulator DTCOSIM

To read data from tachograph

Using the ProgS software you can read from tachograph or tachograph simulator. The tachograph/tachograph simulator should be connected to computer using USB-KSIM interface.

Select the type of tachograph device that will be read and press “Read”. The ProgS software can read data from tachograph or tachograph simulator. In case of reading from tachograph simulator the device type should be set to the device that is simulated by DTCOSIM.

The USB-KSIM should be connected to the target device using appropriate cable:

- DTC grey connector to connect and read from DTCO or tachograph simulator, and for programming data to the tachograph simulator DTCOSIM
- STN grey connector to connect and read from Stoneridge 2400 tachograph
- 1324 black connector to connect and read from 1324 tachograph

To programme the tachograph simulator DTCOSIM:

1. Connect the USB-KSIM interface to the computer and to the tachograph simulator DTCOSIM - using the „DTC” cable.

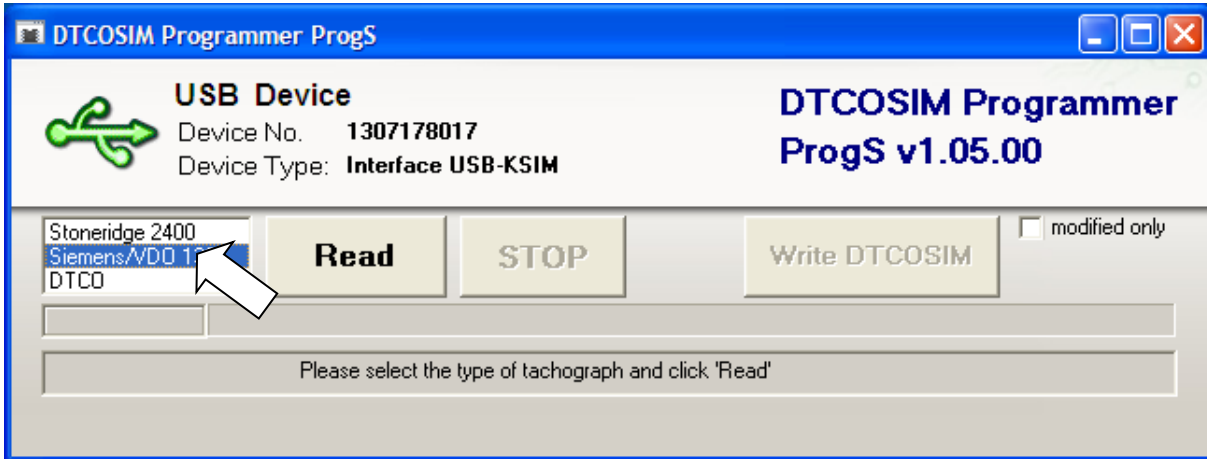
The simulator have to be powered from external power supply 24V (or 12V).



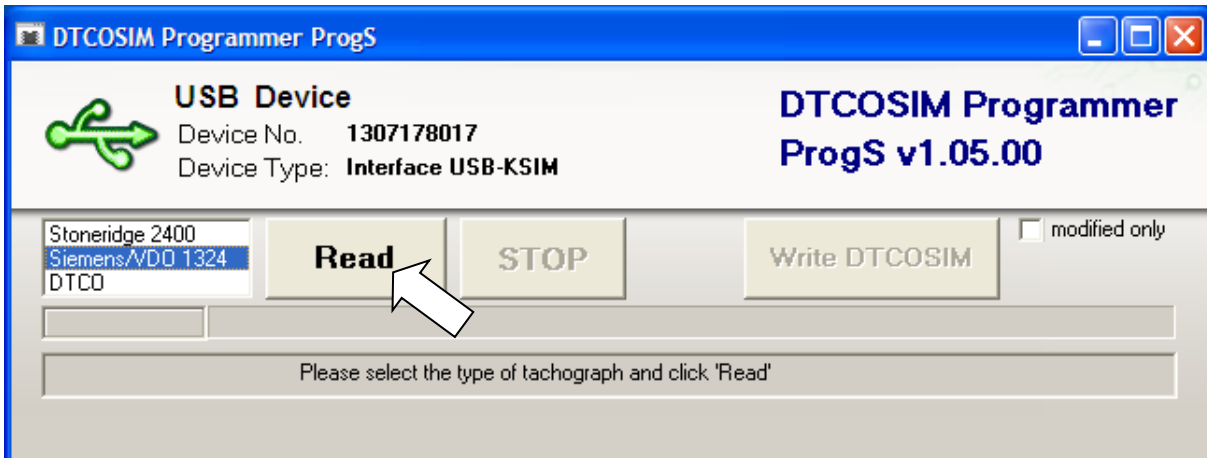
2. Open program



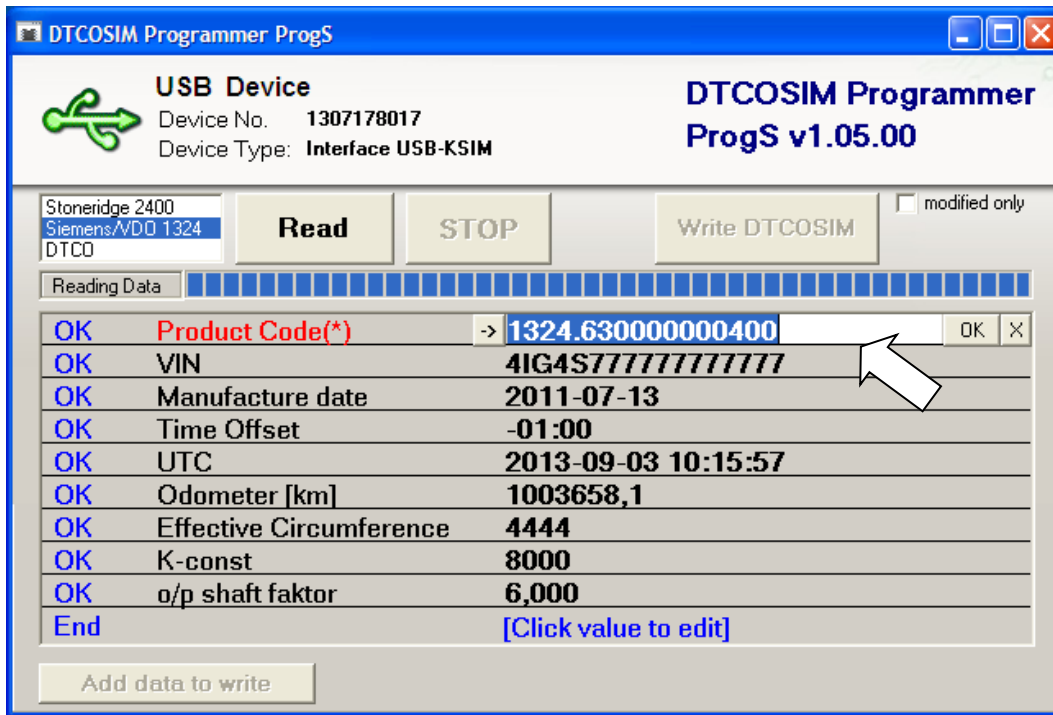
3. Choose „Siemens /VDO 1324”



4. Click „Read”



5. Click the value which you want to edit

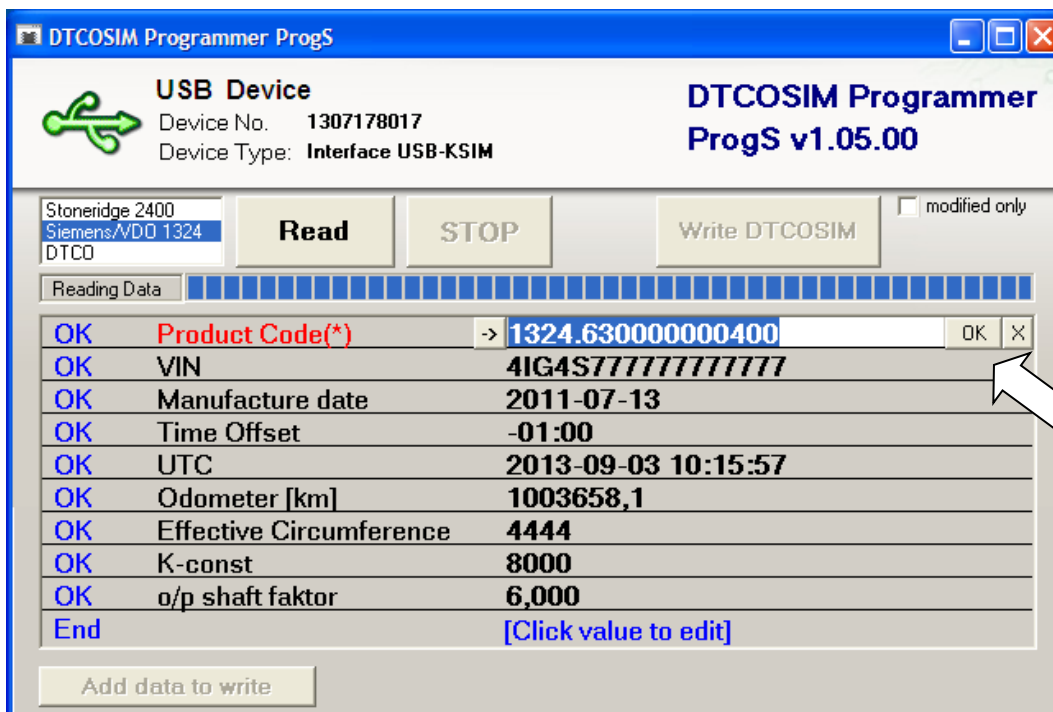


The screenshot shows the 'DTCOSIM Programmer ProgS' window. At the top, it displays 'USB Device' with 'Device No. 1307178017' and 'Device Type: Interface USB-KSIM'. The title bar reads 'DTCOSIM Programmer ProgS v1.05.00'. Below this, there are buttons for 'Read', 'STOP', and 'Write DTCOSIM', along with a 'modified only' checkbox. A 'Reading Data' progress bar is visible. The main data table contains the following information:

OK	Product Code(*)	-> 1324.630000000400	OK	X
OK	VIN	4IG4S7777777777777777		
OK	Manufacture date	2011-07-13		
OK	Time Offset	-01:00		
OK	UTC	2013-09-03 10:15:57		
OK	Odometer [km]	1003658,1		
OK	Effective Circumference	4444		
OK	K-const	8000		
OK	o/p shaft faktor	6,000		
End		[Click value to edit]		

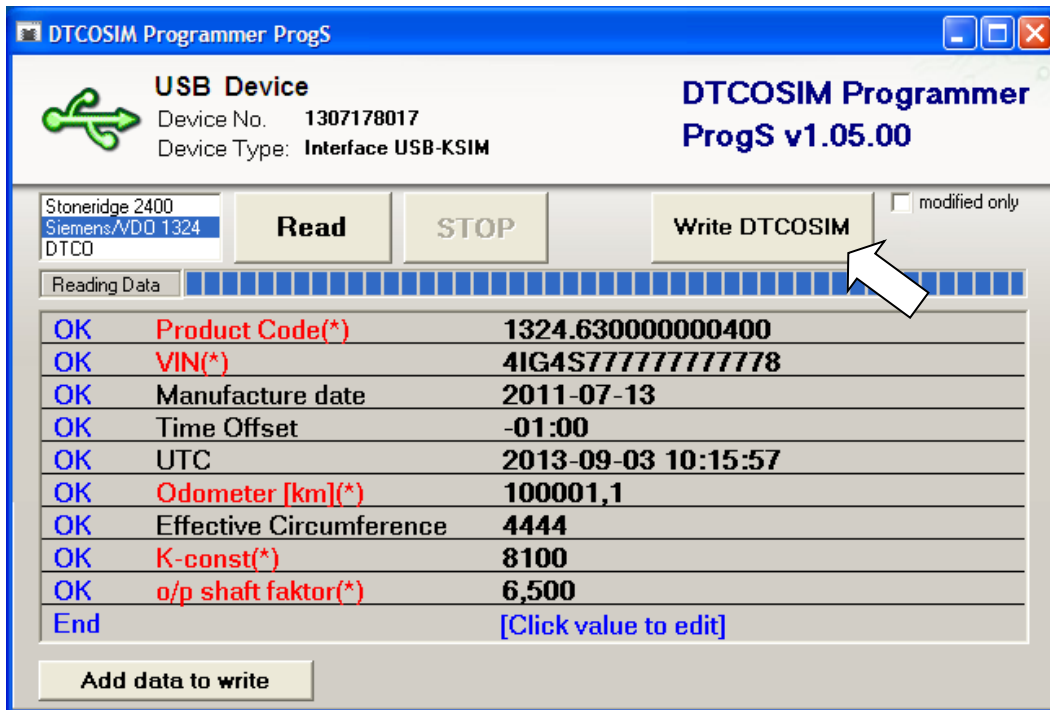
A white arrow points to the 'Product Code(*)' value '1324.630000000400', which is highlighted in red. Below the table is an 'Add data to write' button.

6. To confirm changed value (in red) click „OK”

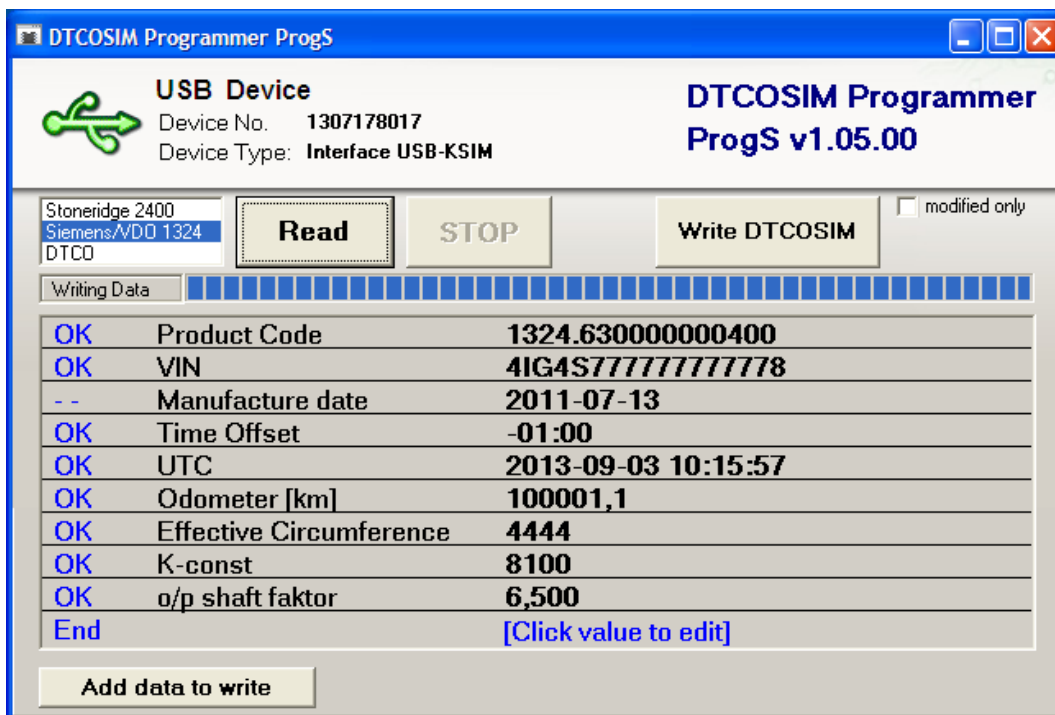


This screenshot is identical to the previous one, but with a white arrow pointing to the 'OK' button next to the 'Product Code(*)' field, indicating the confirmation step.

7. Click „Write DTCOSIM” to write:



8. After writing changes all values will be in black



9. Close program

Additional information about „Product Code 1324.XXXXXXXXXXXXXX”

The product code of the tachograph 1324.XXXXXXXXXXXXXX contains important hidden information.

If you want to fit the tachograph simulator in the place of the 1324 tachograph you simply rewrite all code.

If you have any digital tachograph or VR2400 tachograph it is useful if you know what information there written in this code:

How to recognise CAN or K-line transmission looking on tachograph installation?

- pins „A4” and „A8” – cables connected – it is CAN transmission
- pin „D7” – cable connected (pins „A4” and „A8” unconnected) – it is K-line transmission
- second digit after dot determines speed of the CAN transmission

In big trucks CAN transmission is lower (MAN, SCANIA, VOLVO.,)

1324.x2xxx... (the most popular code in these cars: 1324.620000000000)

1324.x1xx... (if second digit is „1”- in installation of the Simulator have to be added resistor 120Ω between A4 and A8 pin (these pins have to be connected by this resistor)

In small vans like: Sprinter, VW LT, is faster CAN transmission is faster

1324.x3xxxx... or 1324.x4..... (the most popular code in these cars 1324.630000000400)

- third digit after dot determines K- Line transmission

1324.xx1xxxxxxxxx1 (the last digit have to be „1”, too) is used in most of the older: Iveco Daily, Renault Master, Opel Movano (the most popular code in these cars:

1324.601000000001)

in cars with K-line in tachographs:

- pins A4 and A8 are empty (in white plug „A”)
- but pin D7 is connected (in brown plug „D”)

- tenth digit after dot determines „frequency” - the period of time in which the CAN interface sends information about the speed of the vehicle. “2” = 10 ms, “3” = 20 ms, another digit for = 50 ms. Digit “4” or “5” =100 ms of the “HRVD frame” (the period of time in which the CAN interface sends information about the distance).

Some useful remarks:

- Some cars do not show lower odometer value than in tachograph's
 - In this case set these same odometer value like in uninstalled tachograph or higher (for instance in Mercedes Sprinter)
- Some cars have to receive information about VIN number
 - Best to set this number in each simulator (in MAN it is necessary)
- o/p shaft factor value have to be settled in cars with automatic gear box
- in car : if you set simulator in car do it calmly
 - do not send some different information's to car in very short time. If you set data and you do not see any reaction please disconnect the simulator and wait some minutes and connect again (sometimes car computer have to reset this way)

As written in the above it's the simplest way to programme the tachograph simulator DTCOSIM.