

In order to make the Oilcon® Mark 6M compliant with MEPC. 1/Circ.761/Rev 1 & MEPC. 240(65) the system must contain the latest model MCU, see picture 1.

In case a previous model with printer (see picture 2.) is present the MCU requires replacement to the latest model.



Picture 1

Latest model MCU, compliant with biofuel blends after performing software update.



Picture 2

Previous model MCU, not compliant with biofuel blends.

If the correct model MCU is present, the following instructions should be followed to load the software to make the MCU compliant with biofuel blends.

Beside the software update the reference table of products which may be measured should be exchanged in the manual.

The complete manual can also be downloaded from our website [www.vaf.nl](http://www.vaf.nl)

**VAF Instruments B.V.**

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**Reference table update**

Please print the file oil reference table biofuel.pdf, remove the previous list and insert the new printed list in the manual.

~~3.6 REFERENCE TABLE OF PRODUCTS WHICH MAY BE MEASURED  
 Crude oils, and "black" and "white" products (Annex I):~~

Range number	Chemical
0	Marine Distillate Fuel oil
1	Category 1 crude oil
2	Category 2 crude oil
3	Category 3 crude oil
4	Category 4 crude oil
5	Category 5 crude oil
6	Category 6 crude oil
7	Automotive Gasoline
8	Kerosene

~~Other products or applications (Annex II):~~

Range number	Chemical	Range number	Chemical
9	Cyclohexane	20	Hexene
10	Cyclohexene	21	Iso-Octane (all isomers)
11	Cyclopentane	22	Methylcyclohexane
12	Cyclopentene	23	Nonane
13	p-Cymene	24	Paraffine
14	Diethylbenzene	25	Pentane
15	Dipentene	26	Petrolene
16	Dodecane	27	Toluene
17	Ethylbenzene	28	Tetrahydrofuran
18	Ethylcyclohexane	29	Xylene (all isomers)
19	Hexane	30	Omnuson
		31	Calibration VAF

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Remove the page with the old reference table from the manual.

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1	Category 1 crude oil
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4	Category 4 crude oil
5	Category 5 crude oil
6	Category 6 crude oil
7	Automotive Gasoline
8	Kerosene
9	Not used

Biofuel blends (Annex I) according Resolution MEPC 240(85):

Range number	Chemical
10	Biofuel blends of Diesel/gas oil and vegetable oil (25% vegetable oil, 75% Diesel/gas oil)
11	Biofuel blends of Diesel/gas oil and vegetable oil (1% vegetable oil, 99% Diesel/gas oil)
12	Biofuel blends of Diesel/gas oil and Alkanes C10-C26 linear and branched Flashpoint >90C (25% Alkanes, 75% Diesel/gas oil)
13	Biofuel blends of Diesel/gas oil and Alkanes C10-C26 linear and branched Flashpoint >90C (1% Alkanes, 99% Diesel/gas oil)
14	Biofuel blends of Diesel/gas oil and Alkanes C10-C26 linear and branched Flashpoint >90C (25% Alkanes, 75% Diesel/gas oil)
15	Biofuel blends of Diesel/gas oil and Alkanes C10-C26 linear and branched Flashpoint >90C (1% Alkanes, 99% Diesel/gas oil)
16	Biofuel blends of Gasoline and Ethyl alcohol (25% Ethyl alcohol, 75% Gasoline)
17	Biofuel blends of Gasoline and Ethyl alcohol (1% Ethyl alcohol, 99% Gasoline)
18	Biofuel blends of Diesel/gas oil and FAME (25% FAME, 75% Diesel/gas oil)
19	Biofuel blends of Diesel/gas oil and FAME (1% FAME, 99% Diesel/gas oil)

Note: Percentage (%) is by volume

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Insert the new reference table in the manual.

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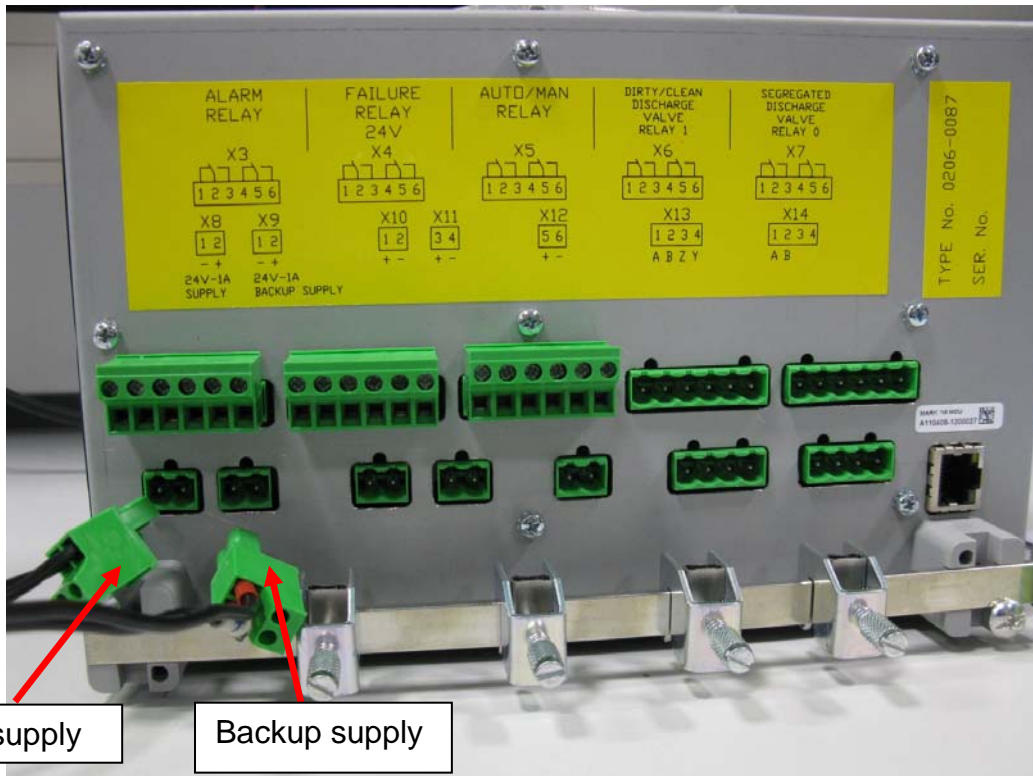
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### Software update

Along with these instructions the latest software is sent. The new software is called VID01.bin. When this procedure is followed step by step, the software is updated within approx. 2 minutes.

1. Copy the sent file VID01.bin to a USB stick and check the content, it should be approx. 411kb.
2. If the MCU has been fully installed already, just disconnect both the mains supply (connector X8) and the backup supply (connector X9), see picture below.



3. Turn the switch in "OFF" position and place the USB stick in the USB port, see picture below.



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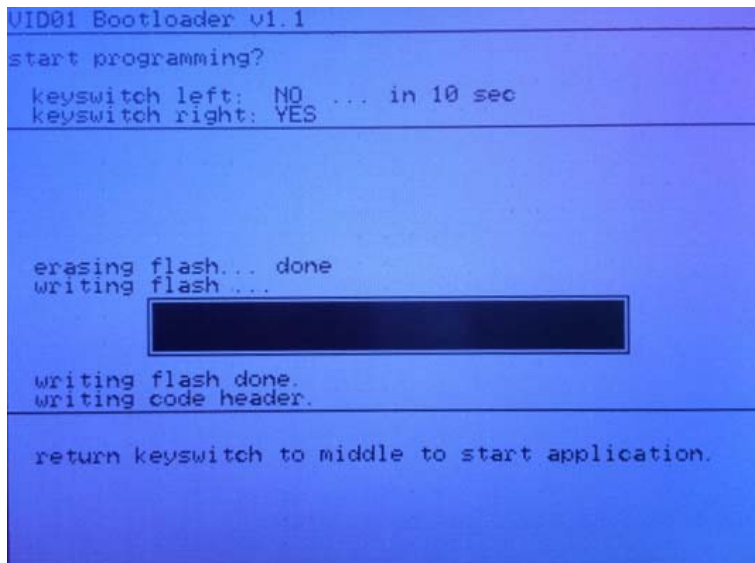


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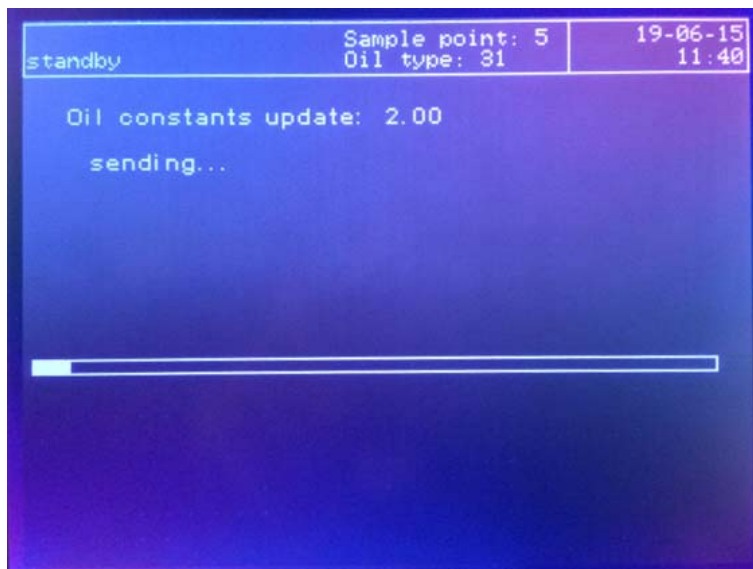


6. After some seconds, below screen will be displayed.



7. Turn the switch to “OFF” position.

8. The system will now load the new constants, see picture below.



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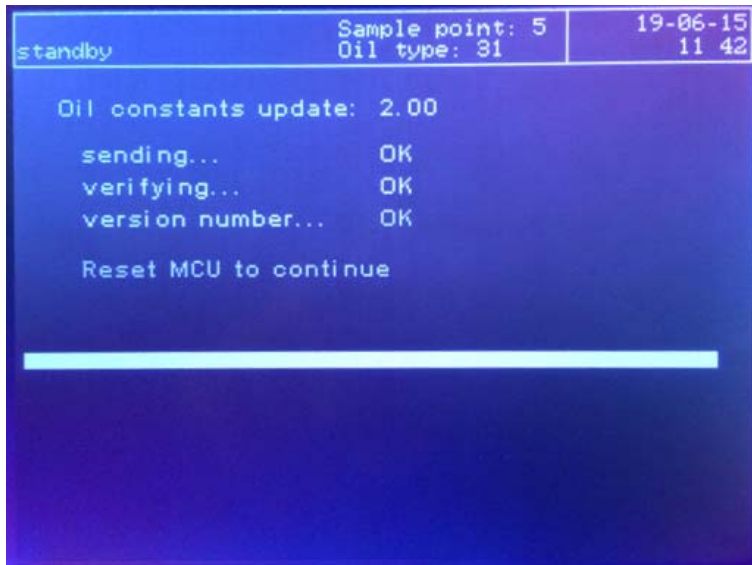


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
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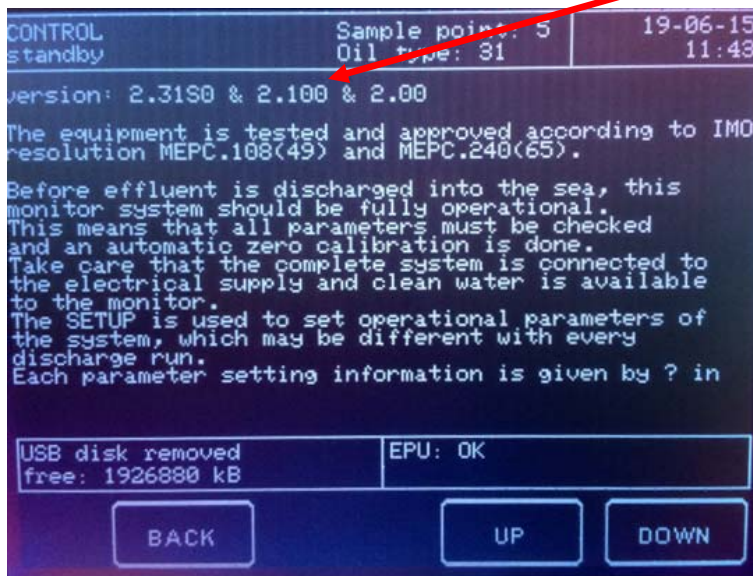
9. When the constants update is completed below screen will be shown.



10. The MCU will restart automatically after a few minutes.  
 The programming has been completed.

11. In order to check if the software is correctly updated, just turn the switch to “CTRL” position and press in the left corner the  button.

12. The display shows below picture, check if the version 2.100 is correct.



13. Turn the switch back to “OFF”.

14. End of programming and checking, ready for use.

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