

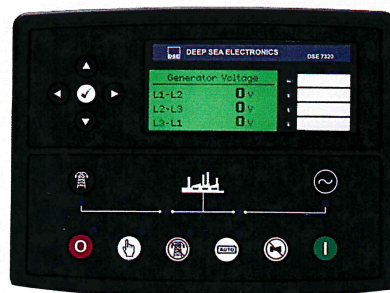
Compatibility Declaration

Technoton confirm:

DFM Marine CCAN
fuel flow meter

and

DSE 7320 MKII
controller



**are compatible on electrical and measuring characteristics,
accuracy error of combined measurement not more than 1%.**

Technoton, Director
Alexander Kaplunski



Based on test result report.
Recommendations on connection and configuration - see Annex.



Recommendations on connecting and configuring DEEP SEA ELECTRONICS DSE 7320 MKII and DFM Marine CCAN

Before starting, please, read DFM Marine operation manual (available for download at the Technoton Document Center)

<https://docs.jv-technoton.com/eng/document-center/dfm-marine/>

1. Connecting DFM Marine CCAN:

- 1.1. DFM Marine CCAN contact #3 (CAN H, blue) connect to input #24 (CAN H) DEEP SEA;
- 1.2. DFM Marine CCAN contact #4 (CAN L, white) connect to input #25 (CAN L) DEEP SEA;
- 1.3. DFM Marine CCAN brown wire («ground») connect to "-" power supply input 1.
- 1.4. DFM Marine CCAN orange wire (power supply) connect to "+" power supply input 2

2.1 Connection scheme:

Connect fuel flow meters to the controller according to the scheme (Fig. 1).

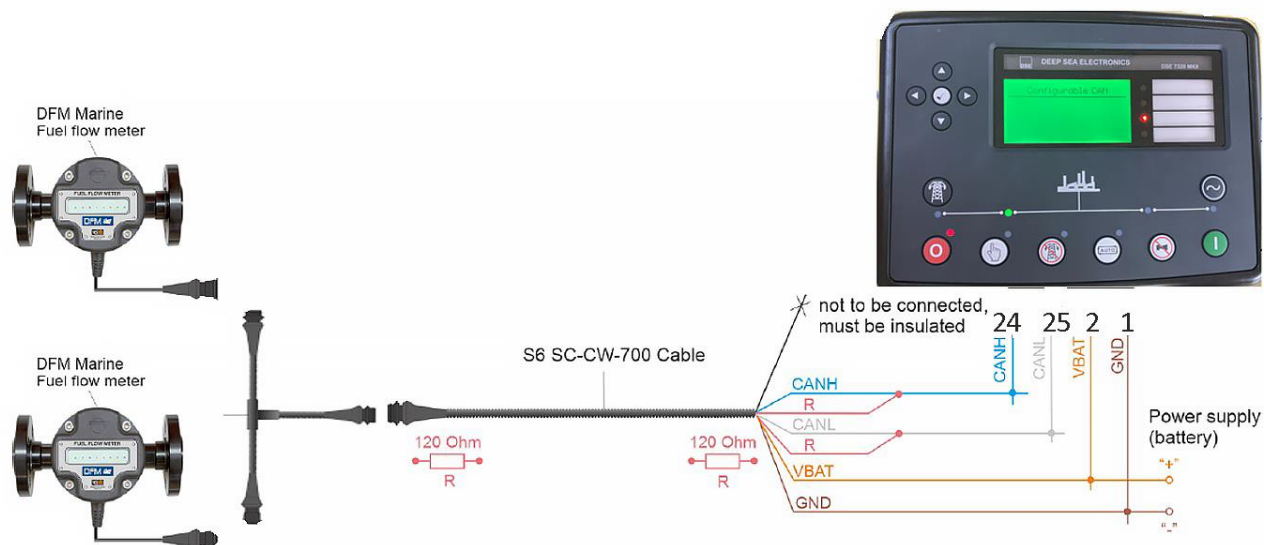


Fig. 1 - Wiring scheme

2.3 DFM Marine CCAN Setup.

DFM Marine are configured in differential mode.

Setting up the first DFM Marine in Master mode

Set address to 111 (set by default);
Set speed to 250 kbps (set by default).

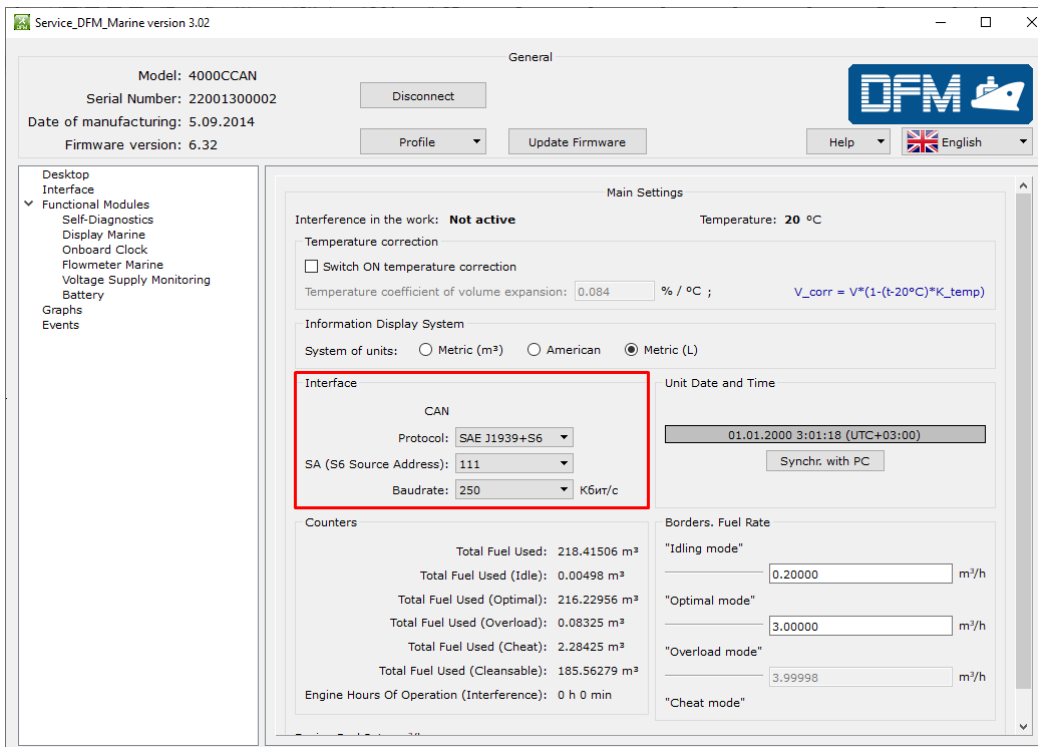


Fig. 2 - Set address

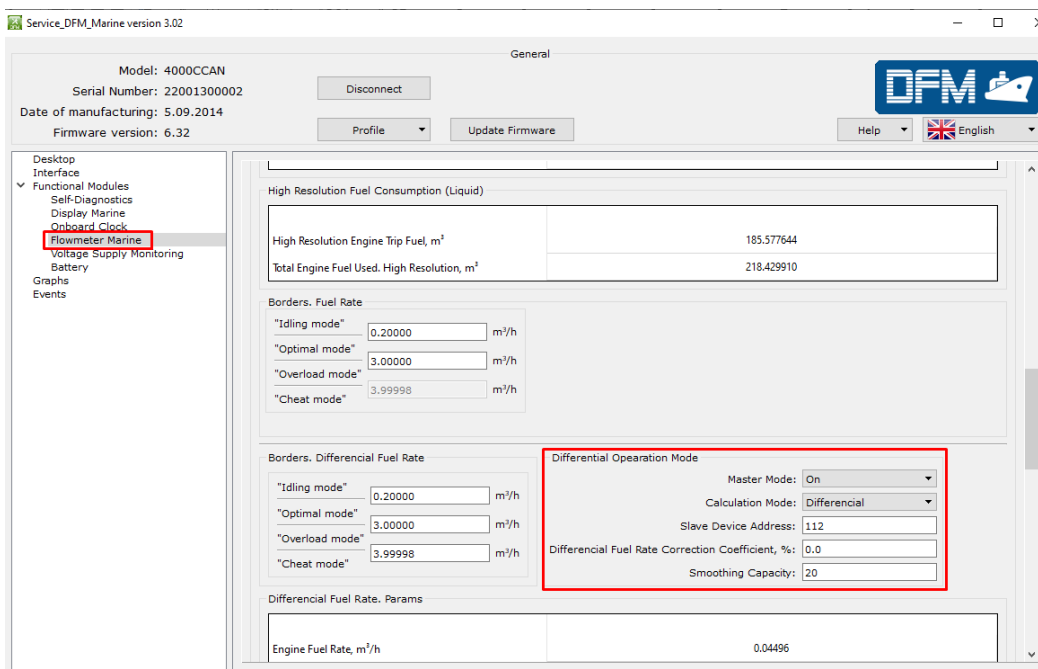


Fig. 3 - Set differential operation mode

Save settings (Figure 4).

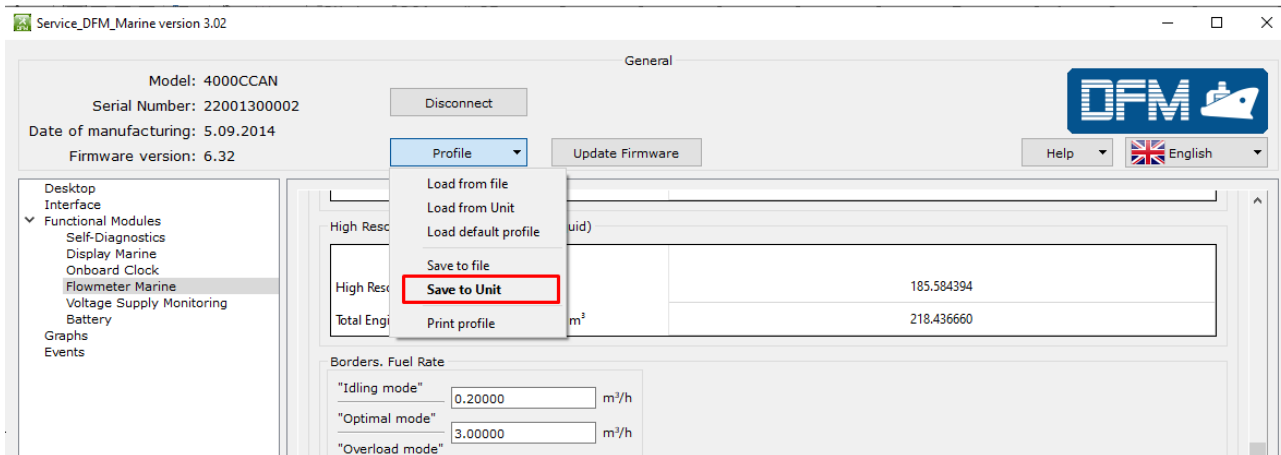


Fig. 4 - Saving settings

Setting up the second DFM Marine in Master mode (Fig 5).

Set address to 112 (set by default);
Set speed to 250 kbps (set by default).

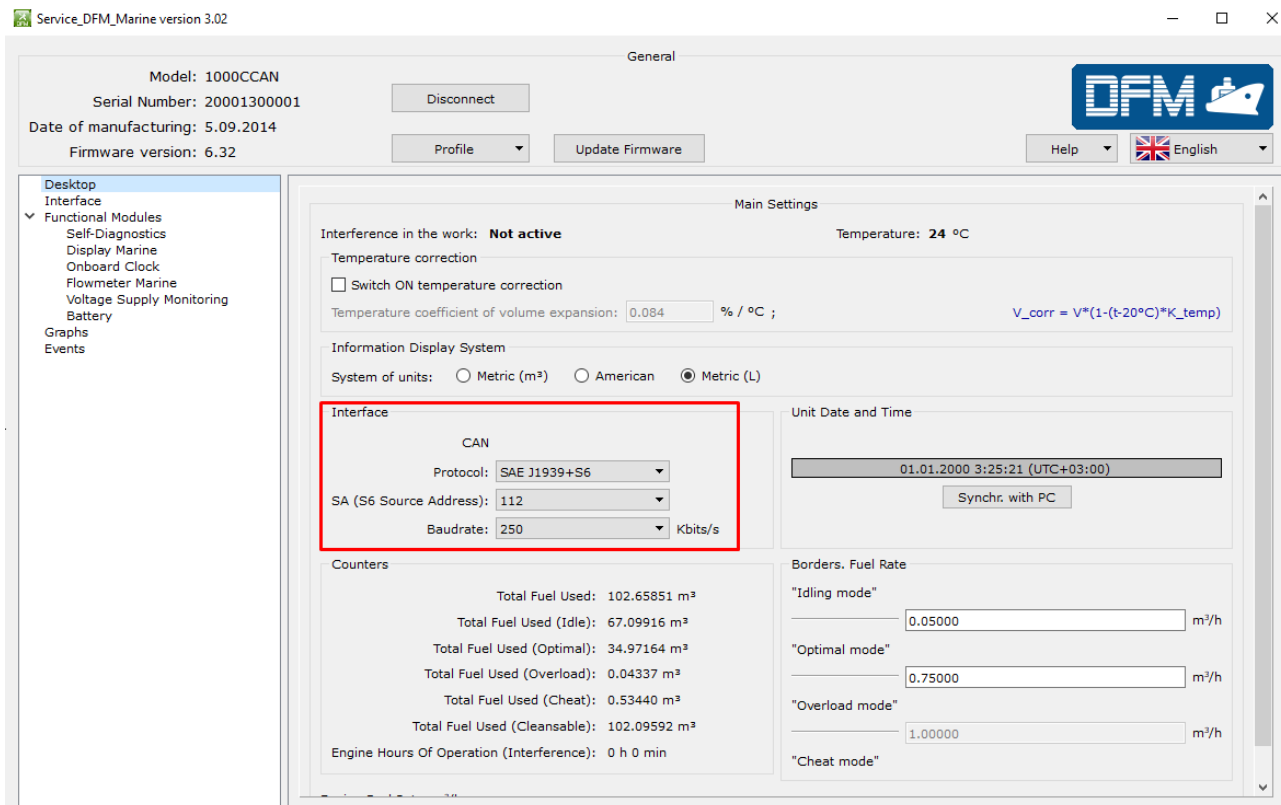


Fig. 5 - Set address

Save settings (Fig 6).

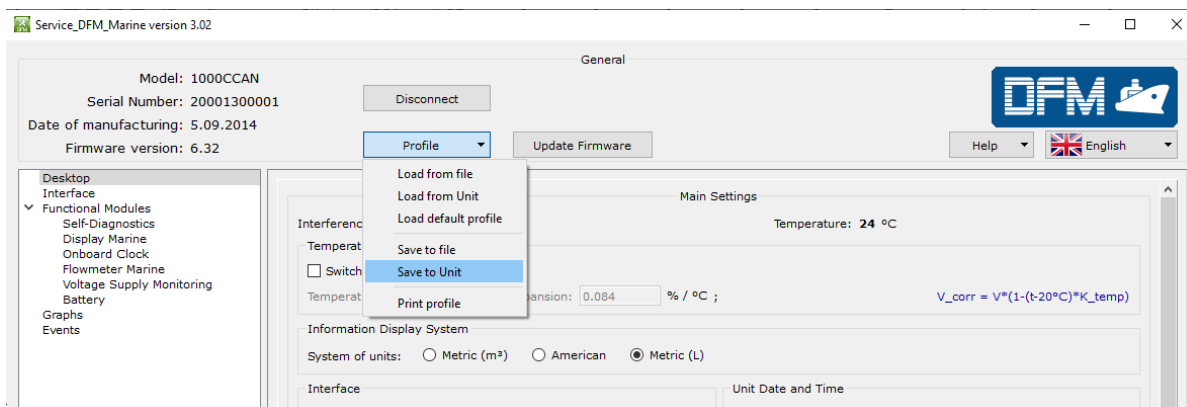


Fig. 6 - Saving settings

2.4 DEEP SEA DSE 7320 MKII Setup

Connecting DEEP SEA controller to DEEP SEA Configurator Suite for setup (Fig. 7).

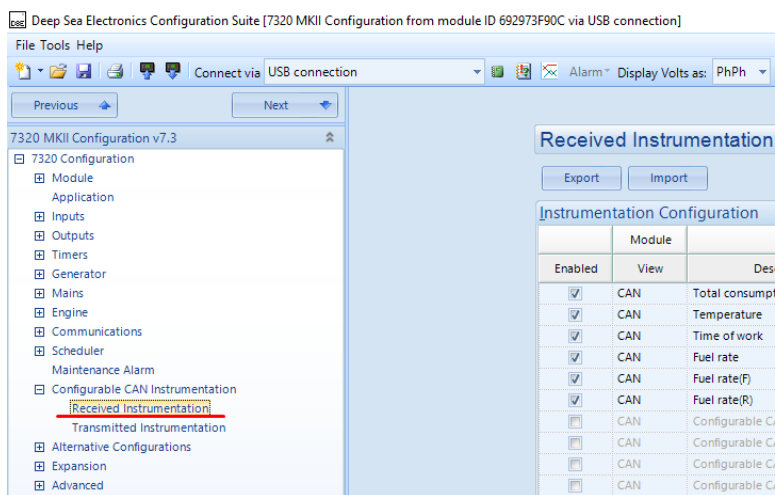


Fig. 7 -DEEP SEA controller setup

Make settings in the controller according to the table (Fig. 8):

Received Instrumentation																		
Instrumentation Configuration																		
Enabled	Module	Description	Message ID	Bits	CAN ID	Timeout	Byte	Bit	Length	Signed	Display	Bus Value	Mapped Value				Fn	
	View					Enable (ms)					D.Places	Suffix	Smallest	Largest	Smallest	Largest		
<input checked="" type="checkbox"/>	CAN	Total Fuel Used 1 DFM	29	0x18F6B56F	<input checked="" type="checkbox"/>	5000	1	0	32	<input type="checkbox"/>	5	m3	0	429496729	0	429496729		Fn
<input checked="" type="checkbox"/>	CAN	Total Fuel Used 2 DFM	29	0x18F6B570	<input checked="" type="checkbox"/>	5000	1	0	32	<input type="checkbox"/>	5	m3	0	429496729	0	429496729		Fn
<input checked="" type="checkbox"/>	CAN	Total Fuel Used Differential	29	0x18F6DE6F	<input checked="" type="checkbox"/>	5000	1	0	32	<input type="checkbox"/>	5	m3	0	429496729	0	429496729		Fn
<input checked="" type="checkbox"/>	CAN	Temperature 1 DFM	29	0x18FEE66F	<input checked="" type="checkbox"/>	5000	2	0	8	<input type="checkbox"/>	0	C	0	250	-40	210		Fn
<input checked="" type="checkbox"/>	CAN	Temperature 2 DFM	29	0x18FEE70	<input checked="" type="checkbox"/>	5000	2	0	8	<input type="checkbox"/>	0	C	0	250	-40	210		Fn
<input checked="" type="checkbox"/>	CAN	Fuel rate 1 DFM	29	0x18F8526F	<input checked="" type="checkbox"/>	5000	1	0	16	<input type="checkbox"/>	0	L/h	0	65534	0	65534		Fn
<input checked="" type="checkbox"/>	CAN	Fuel rate 2 DFM	29	0x18F85270	<input checked="" type="checkbox"/>	5000	1	0	16	<input type="checkbox"/>	0	L/h	0	65533	0	65534		Fn
<input checked="" type="checkbox"/>	CAN	Fuel rate Diff	29	0x18F8526F	<input checked="" type="checkbox"/>	5000	3	0	16	<input type="checkbox"/>	0	L/h	0	65534	0	65534		Fn
<input checked="" type="checkbox"/>	CAN	Time of work 1 DFM	29	0x18F8526F	<input checked="" type="checkbox"/>	5000	5	0	32	<input type="checkbox"/>	2	Hr	0	11081215	0	55406075		Fn
<input checked="" type="checkbox"/>	CAN	Time of work 2 DFM	29	0x18F85270	<input checked="" type="checkbox"/>	5000	5	0	32	<input type="checkbox"/>	2	Hr	0	11081215	0	55406075		Fn
<input type="checkbox"/>	CAN	Configurable CAN 12	29	0x0	<input checked="" type="checkbox"/>	5000	1	0	1	<input type="checkbox"/>	0		0	1	0	100		
<input type="checkbox"/>	CAN	Configurable CAN 13	29	0x0	<input checked="" type="checkbox"/>	5000	1	0	1	<input type="checkbox"/>	0		0	1	0	100		
<input type="checkbox"/>	CAN	Configurable CAN 14	29	0x0	<input checked="" type="checkbox"/>	5000	1	0	1	<input type="checkbox"/>	0		0	1	0	100		
<input type="checkbox"/>	CAN	Configurable CAN 15	29	0x0	<input checked="" type="checkbox"/>	5000	1	0	1	<input type="checkbox"/>	0		0	1	0	100		
<input type="checkbox"/>	CAN	Configurable CAN 16	29	0x0	<input checked="" type="checkbox"/>	5000	1	0	1	<input type="checkbox"/>	0		0	1	0	100		
<input type="checkbox"/>	CAN	Configurable CAN 17	29	0x0	<input checked="" type="checkbox"/>	5000	1	0	1	<input type="checkbox"/>	0		0	1	0	100		
<input type="checkbox"/>	CAN	Configurable CAN 18	29	0x0	<input checked="" type="checkbox"/>	5000	1	0	1	<input type="checkbox"/>	0		0	1	0	100		
<input type="checkbox"/>	CAN	Configurable CAN 19	29	0x0	<input checked="" type="checkbox"/>	5000	1	0	1	<input type="checkbox"/>	0		0	1	0	100		

Fig. 8 - table for setting

Save settings (Fig. 9).

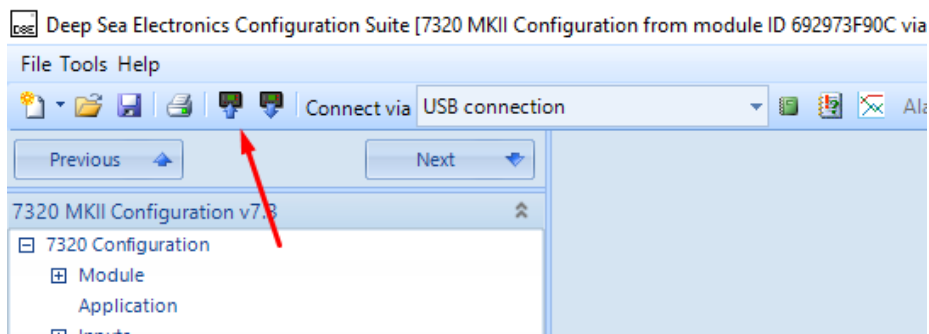


Fig. 9 - Saving settings

2.5 Displaying data from DFM Marine on the DEEP SEA screen

Compare the data on the DEEP SEA display screen with the data in the Service DFM Marine v.3.02 service program. (Figure 10-17).

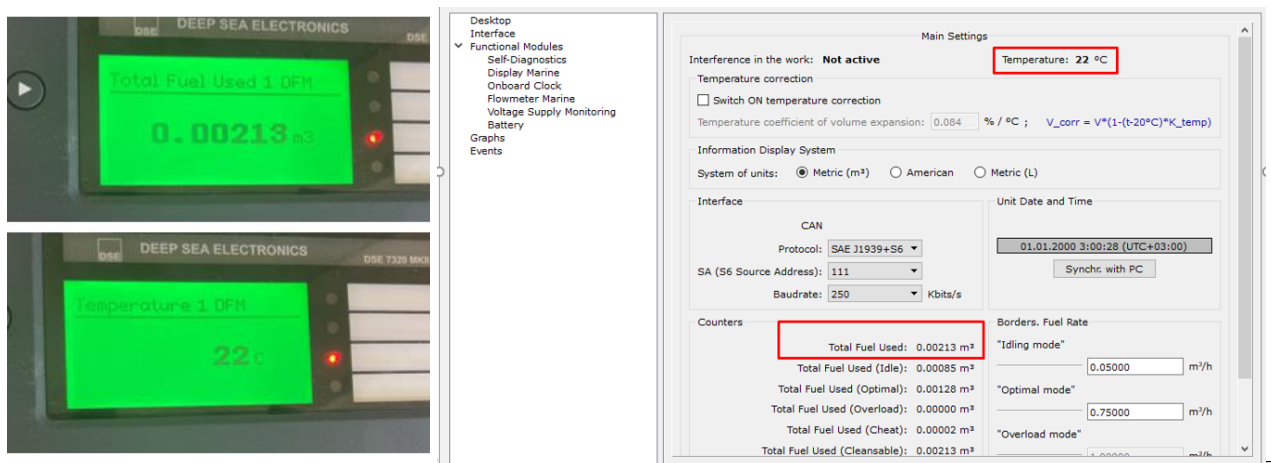


Fig. 10 - Data from DEEP SEA (1) and Service DFM Marine (2)

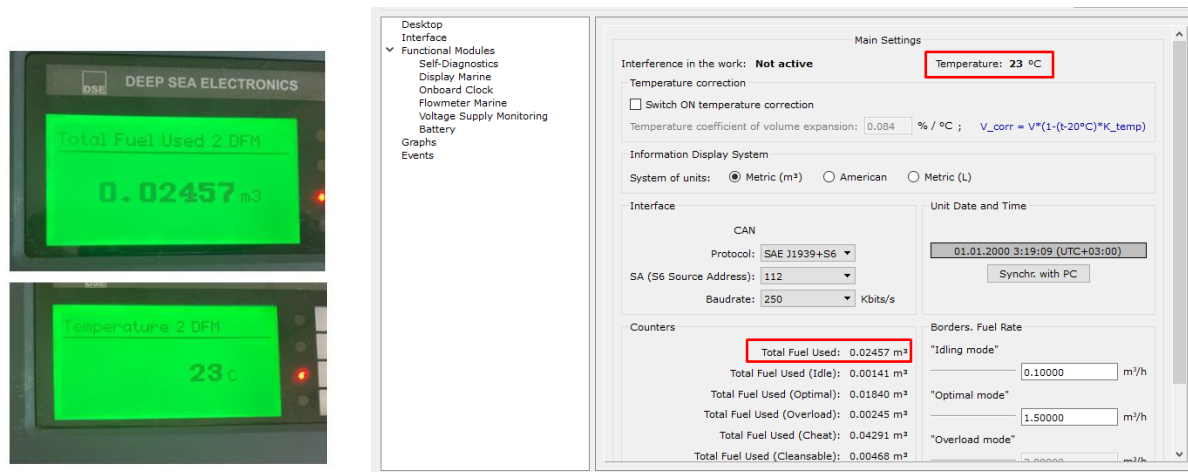


Fig. 11 - Data from DEEP SEA (1) and Service DFM Marine (2)

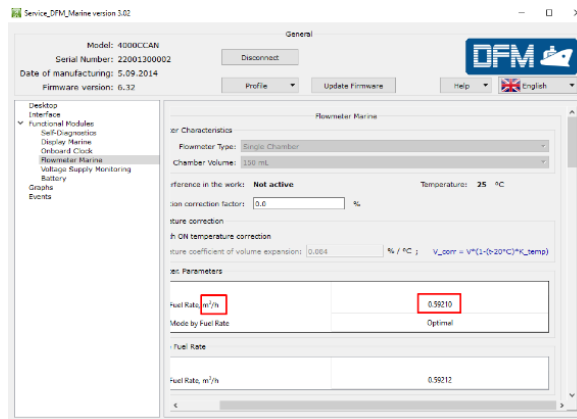


Fig. 12- Data from DEEP SEA (1) and Service DFM Marine (2)

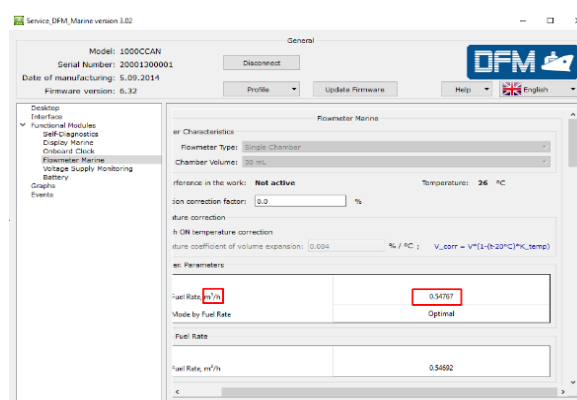


Fig. 13 - Data from DEEP SEA (1) and Service DFM Marine (2)

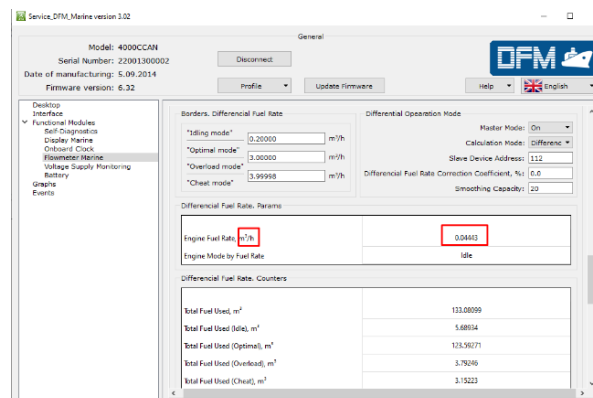


Fig. 14 - Data from DEEP SEA (1) and Service DFM Marine (2)

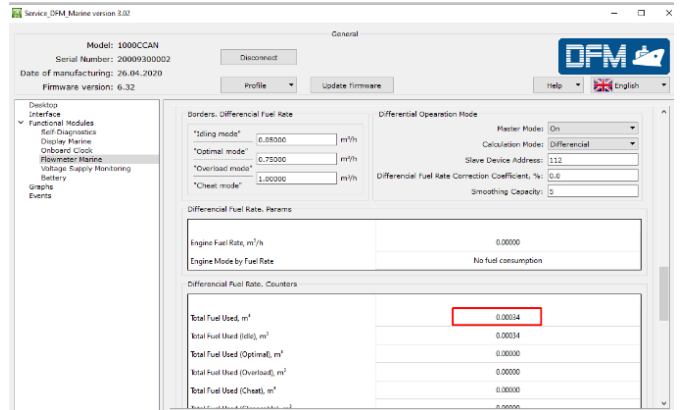


Fig. 15 - Data from DEEP SEA (1) and Service DFM Marine (2)

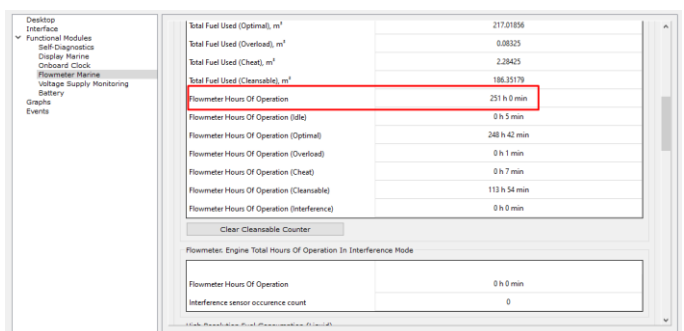


Fig. 16 - Data from DEEP SEA (1) and Service DFM Marine (2)

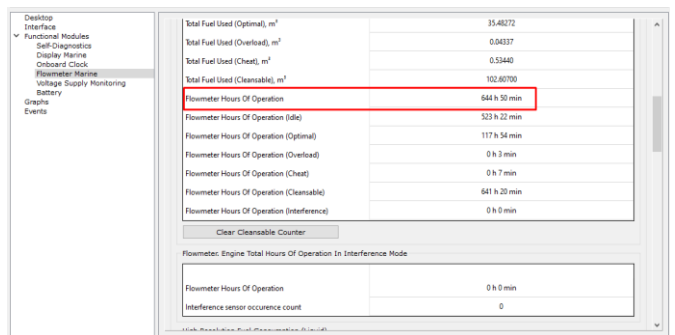


Fig. 17 - Data from DEEP SEA (1) and Service DFM Marine (2)

Congratulations, setting up is completed!