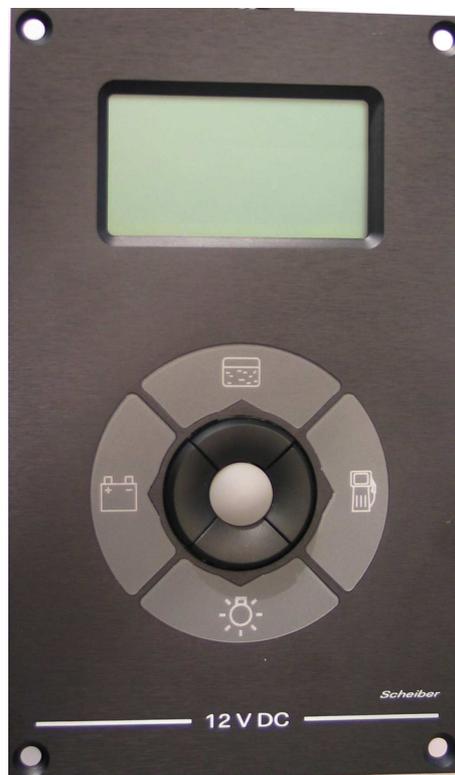


NAVIGRAPH

Ref: 41.440A2.00

INSTRUCTIONS



28/10/05

V1.0

SCHEIBER

1- DESCRIPTION

With the « **Navigraph** », you will have the possibility to monitor the voltage from 1 to 3 batteries, until 4 levels of water within the tanks and 2 levels of fuel. The control panel is delivered with grey polyester stickers with a blue back-lit logo and its accessories:

- 4 screws
- the connectors

The white back-lit panel is 3mm thick, black anodized and in aluminium.

Dimensions of the panel: 175x105mm (screen: 60x32)

Graphic display panel 128x64 pixels

In addition to the « Navigraph », you can order the following products:

- Shunt 100A /50mV (Ref. : OE.DVC150)
- 5-pin water gauge case (Ref. : 50BTE05000E.00)
- Fuel gauge

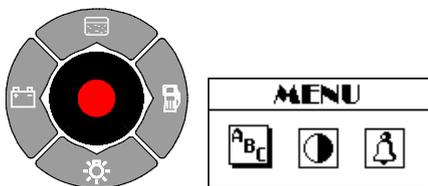
With this product, you can:

- Measure the voltage of the domestic battery,
- Measure the voltage of the engine battery,
- Measure the voltage of the auxiliary battery,
- Measure the discharge current of the domestic battery,
- Measure the levels of water (until 4 tanks)
- Measure the levels of fuel (until 2 tanks)
- Detect the number of tanks (water and fuel) when it is under voltage.
- High and low voltage alarms for the three batteries,
- Back-lit stickers with blue leds.

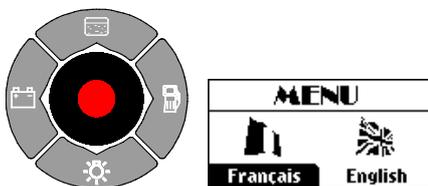
2- RUNNING OF THE PANEL

Choose the language

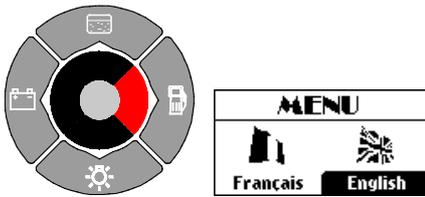
To get in the menu, press on the central button.



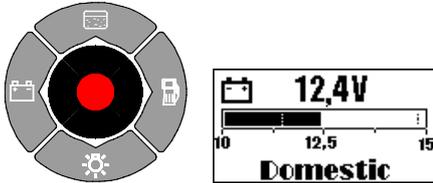
To select the menu « Languages », press again on this central button.



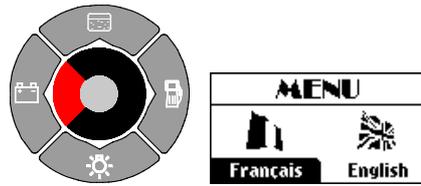
To select the English language, press on the right button.



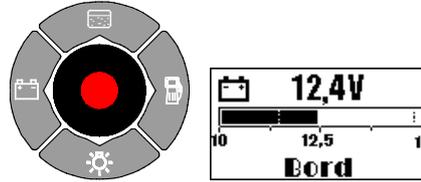
To validate, press on the central button: you then have once again the voltages displayed on the screen.



To select the French language, press on the left button.

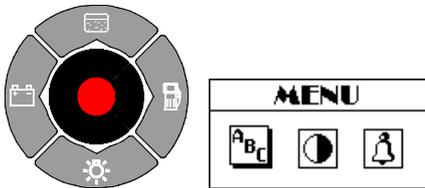


To validate, press on the central button: you then have once again the voltages displayed on the screen.

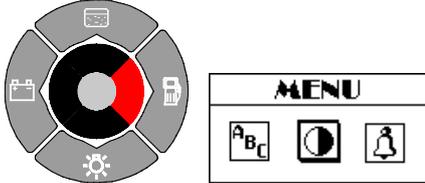


Adjustment of the contrast of the screen

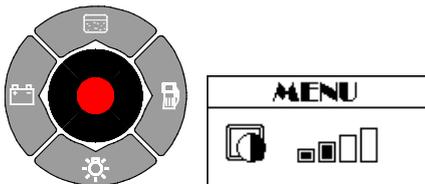
To get in the menu « Contrast », press on the central button,



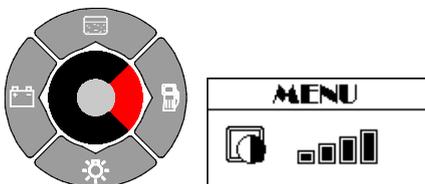
Then press on the right button to select the menu.



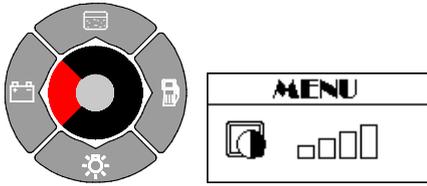
To validate, press on the central button. The menu « Contrast » is then displayed on the screen.



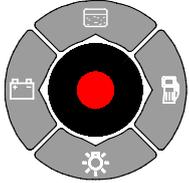
To increase the contrast, press on the right button.



To reduce it, press on the left button.



To get out of the menu and save the new setting, press on the central button.

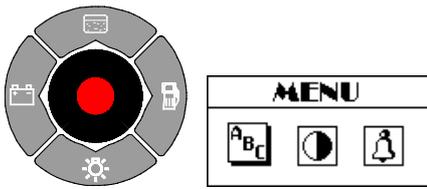


To get out of the menu without saving the new setting, press on the lower button.

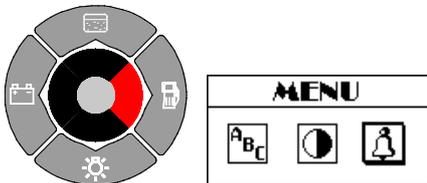


Activate / Deactivate the sound alarms for the voltage of the batteries

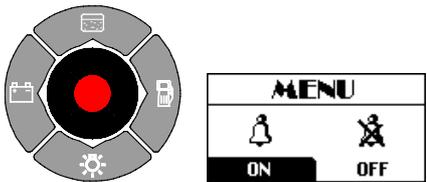
To get in the menu, press on the central button.



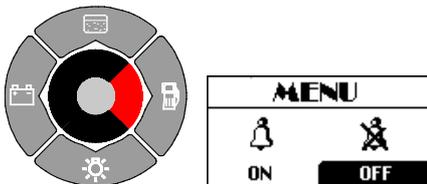
To select the menu « Alarm », press twice on the right button,



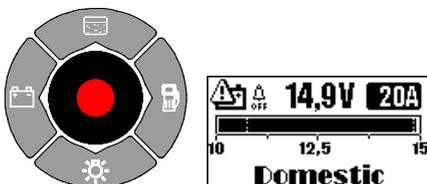
Then to validate, press again on the central button. The menu « Alarm » is then displayed on the screen.



To deactivate the sound alarms for the voltage of the batteries, press on the right button,

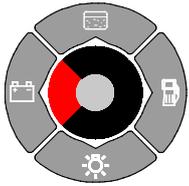


Then, to validate, press again on the central button. The voltages are then once again displayed on the screen.



Display of the voltages of the batteries

DOMESTIC Battery



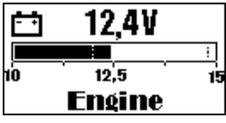
Pictogram for the battery's alarm

Pictogram to show that the sound alarm is off.

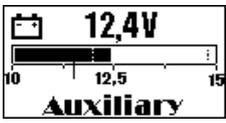
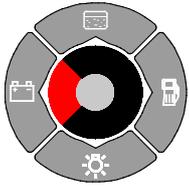


Thresholds to activate the alarms

ENGINE Battery

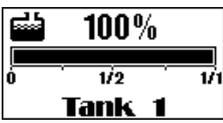
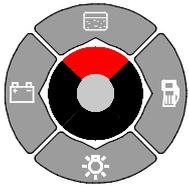


AUXILIARY Battery

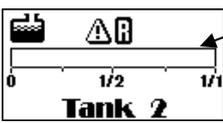


Display of the water tanks' levels

Tank 1



Tank 2

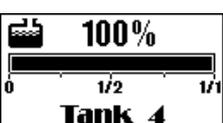


The tank 2 is empty or you have water from the water reserve.

Tank 3

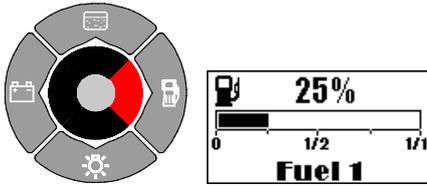


Tank 4

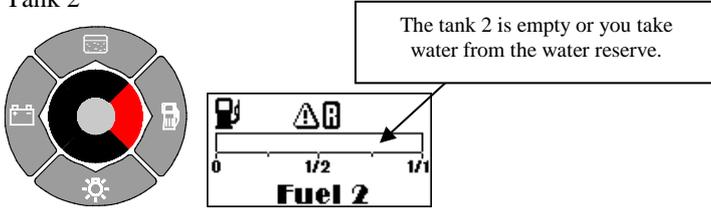


Display of the fuel tanks' levels

Tank 1



Tank 2

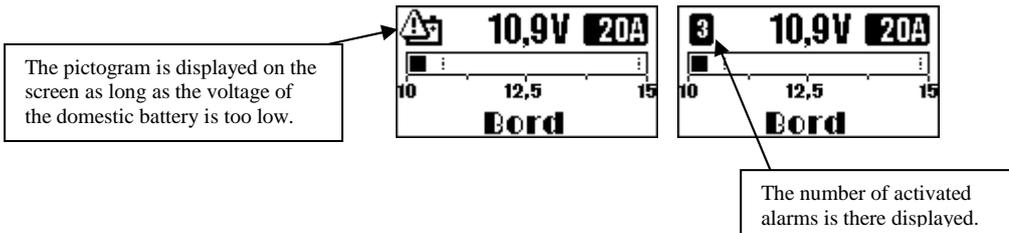


Alarms



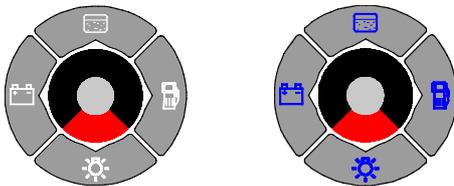
+ Sound alarm (if it is not off)

If you press on one of the 5 buttons, it stops the sound alarm. You then return to the menu "Voltage".



Put on / off the back-light of the pictograms

ON / OFF

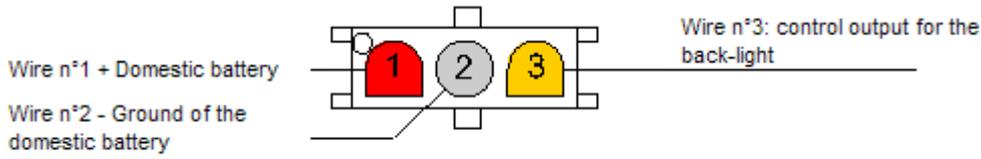


3- ELECTRIC SPECIFICATIONS OF THE PANEL

Domestic battery	Min	Max
Running voltage	8.5V	15V
Consumption of the panel	32mA	130mA
Consumption of the LCD back-light		80mA
Consumption of the pictogram back-light		16mA
Engine battery	Min	Max
Measured and displayed voltage	5V	15V
Consumption on the engine battery		2mA
Auxiliary battery	Min	Max
Measured and displayed voltage	5V	15V
Consumption on the auxiliary battery		2mA
Measurement of the fuel	Connected sensor	Non-connected sensor
Voltage of the fuel tank n°1 (2)	0.12V to 0% 1.96V to 100%	3V
Voltage of the fuel tank n°2 (5)	0.12V to 0% 1.96V to 100%	3V
Consumption	Min	Max
Fuel tank n°1 (terminal 2) only 5 sec during the test	10mA to 0%	36mA to 100%
Fuel tank n°2 (terminal 5) only 5 sec during the test	10mA to 0%	36mA to 100%
Measurements of the water levels		
Supplying voltage of the water sensors (terminal 8)	DOMESTIC battery -1,8V	DOMESTIC battery -1,5V
Consumption of each water tank		4mA
Return voltage tank 1, 2, 3 and 4 Terminals: (3) (6) (9) (12)	1.1V to 0% 2.2V to 25% 3.3V to 50% 4.5V to 75% 5.6V to 100%	
Low voltage alarm	ON	OFF
DOMESTIC battery	<11.5V + tempo	>12.9V
ENGINE battery	<12.0V + tempo	>12.9V
AUXILIARY battery	<12.0V + tempo	>12.9V
High voltage alarm	ON	OFF
DOMESTIC, ENGINE, AUXILIARY battery	≥14.7V	<14.7V

Supply connector:

Mate-N-Lock 3 x male + female thimbles



Inputs' connector:

Mate-N-Lock 12 x male + female thimbles

