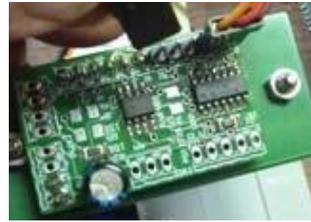


**Installation of the FDbus
1 analog module
1 servo module
and example of parameter setting of servo motor
gauges**

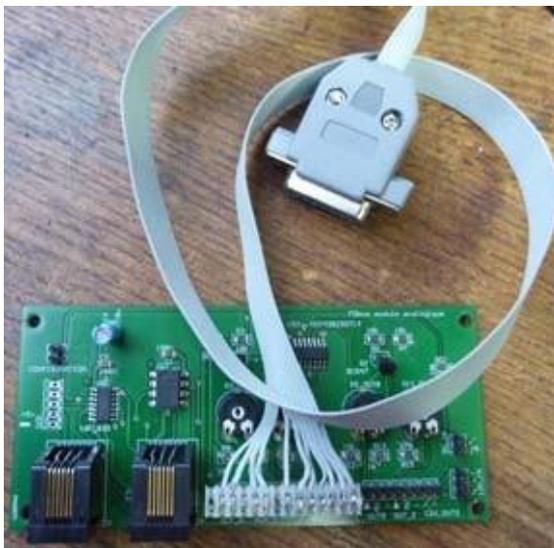
Composition of the material supplied



1 master card



1 motor servo module



1 analog module and its
VOR cable



2 câble bus



1 VOR modified



1 driver download

<http://fabien.deheegher.free.fr>

Material not included

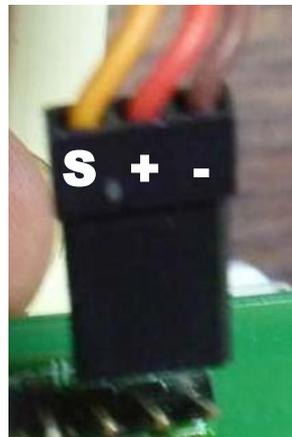
- 1 USB cable type A-B



- a power supply 5v, 0.5A x
the number of servos

- a power supply source
for the VOR backlight

- 2 gauges equipped with 2
servo motors wired as shown
opposite



Wiring



Connect the VOR to the analog board



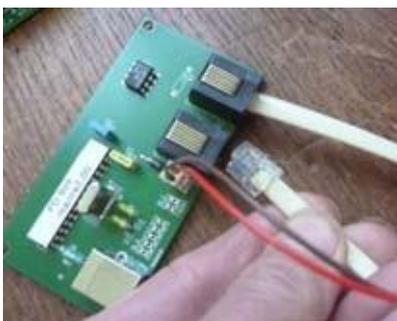
Connect the 5v power supply to the master card



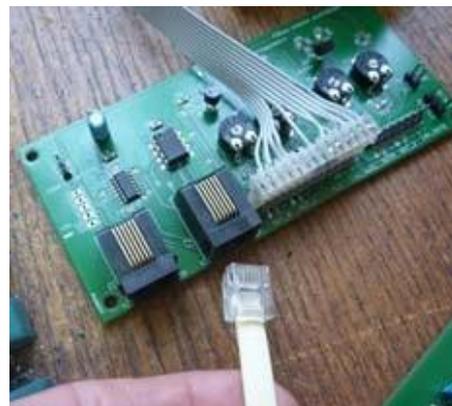
Connect a first bus cable to the master board



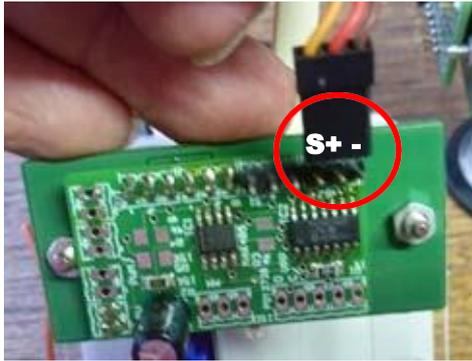
Connect the other side of the cable to the servo module



Connect the second bus cable to the master card



Connect the other side of this second cable to the analog module



Connect the amperometer gauge servo to the servo module, right servo connector.
CAUTION TO MEANING



Connect the suction gauge servo to the servo module, left servo connector. **CAUTION TO MEANING**



Connect the USB cable to the master card and PC

Important:
If this is not done, power up the 5V BEFORE launching the driver.

Test and Settings

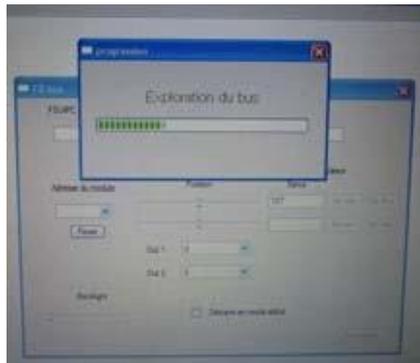
The VOR has been set up in the workshop, there's nothing to do.

The gauges must be set according to the needle displacement angle
Note: Offset and values are pre-recorded in the "gauge module"

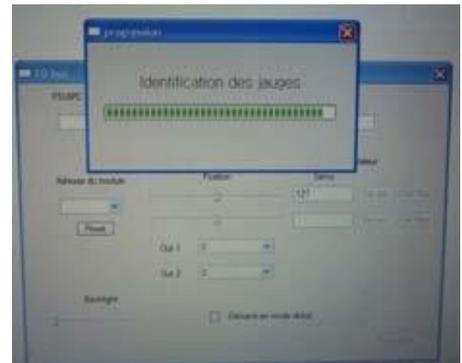
- Left hand socket, servo 1, suction gauge
- Socket on the right, servo 2, ammeter gauge



Execute the driver



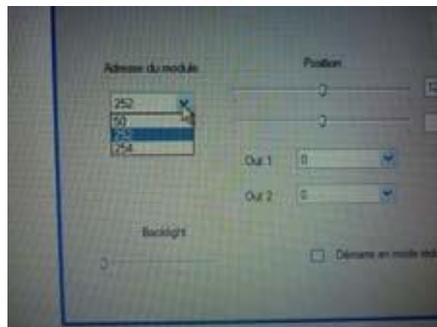
Wait for bus exploration to end



Wait for completion of module identification



The servo is positioned centrally



From the drop-down list, select address 252.
This is the address of the servo module

Searching for the Mini needle position

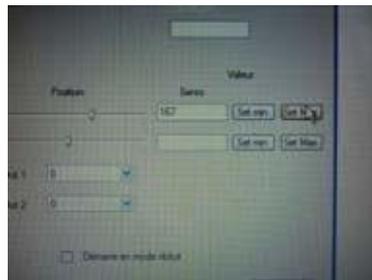


Move the servo1 slider to the low position on the gauge.



Click on « Set min. »

Searching for the Maxi needle position



Move the servo1 slider to reach the high position on the gauge

Click on « Set Max. »

Calibration of intermediate positions and storage of values



Click on «Paramètres »



The minimum and maximum values of "Course 1" are reported. Here, 85 and 167



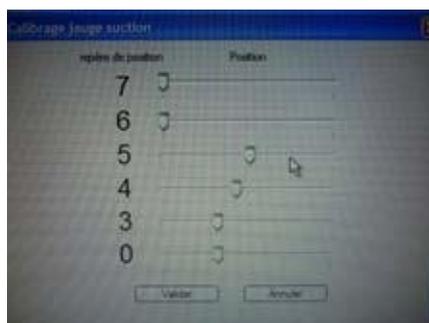
Click on «Calibrage »



The 6 sliders represent the 6 markers of the suction gauge

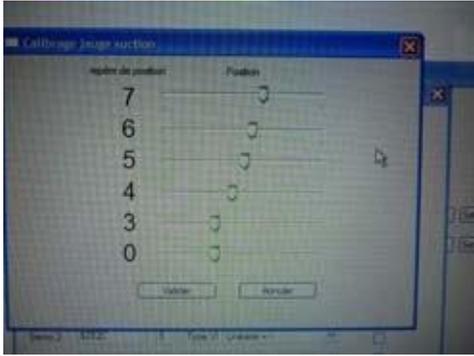


Position cursor 4 to place the pointer on marker 4

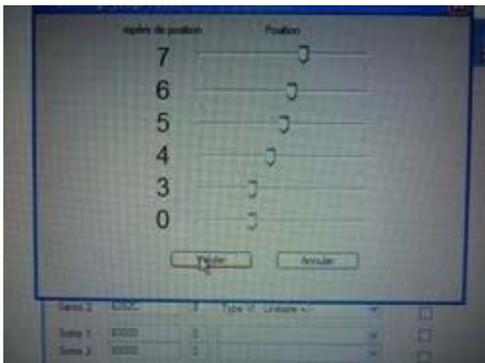


Position cursor 5 to place the pointer on marker 5

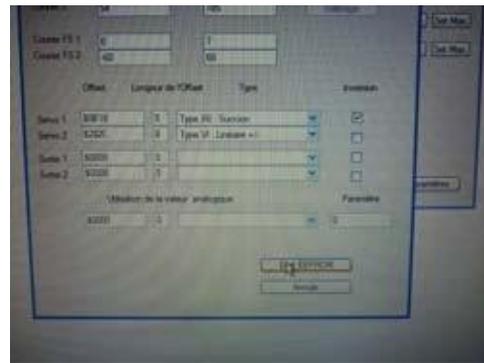




Position cursor 6 to place the needle on marker 6, cursor 7 must be correctly positioned.



Click on "valider" to save the changes



Click on "Ecrit EEPROM" to write the modifications in the module



A wire must be placed between these 2 points to allow writing in the module.

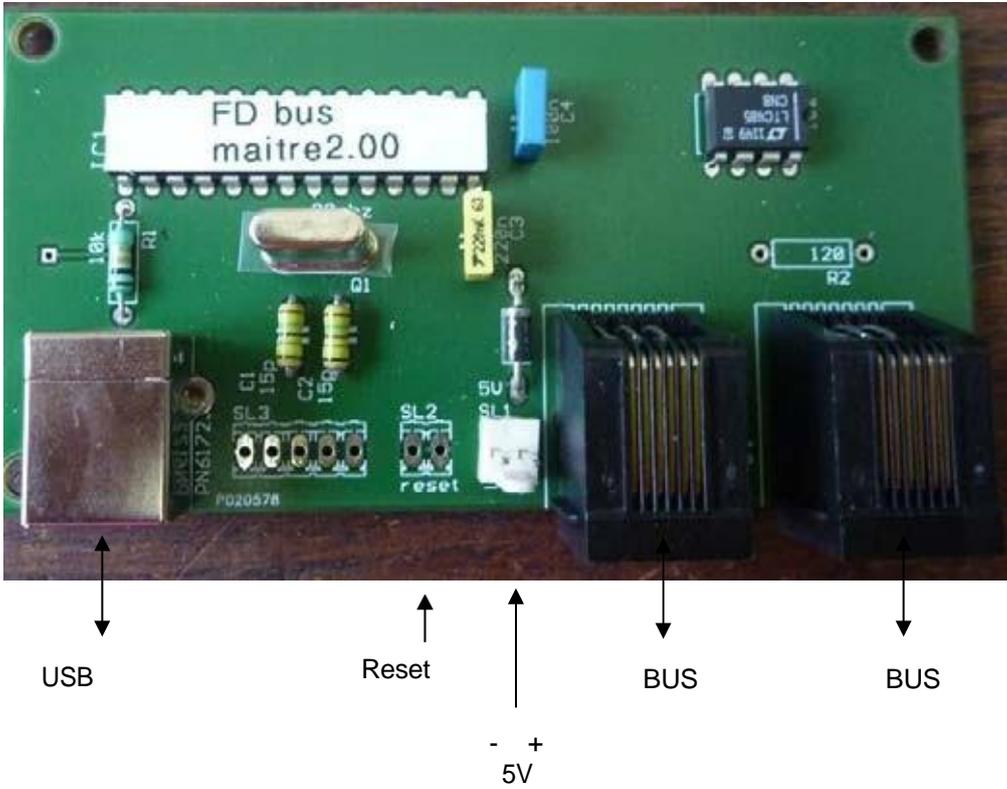


Click on « OK »

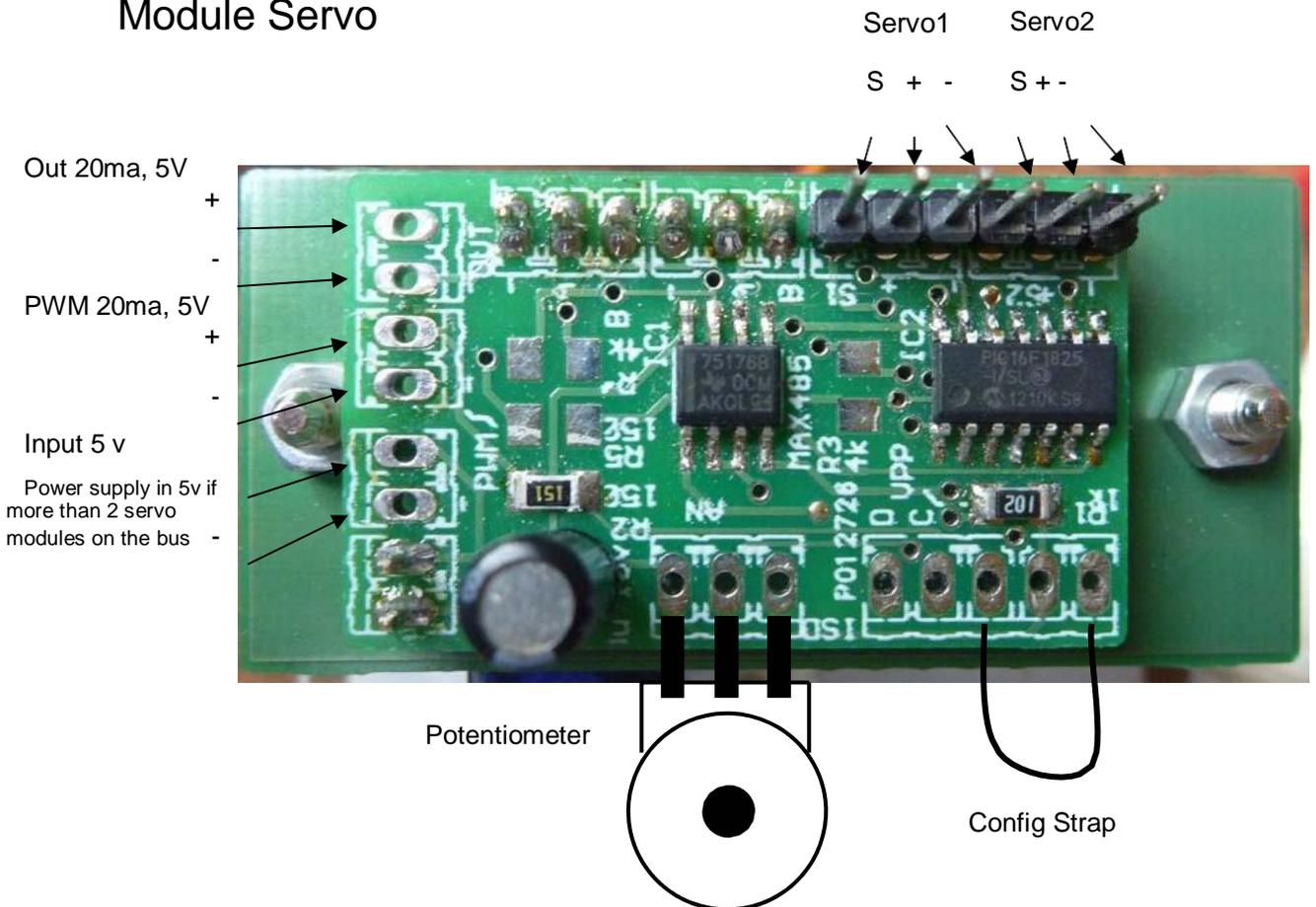
IMPORTANT NOTE
You must exit the driver and then restart it so that the new parameters are taken into account

Map Description

Master card FDbus

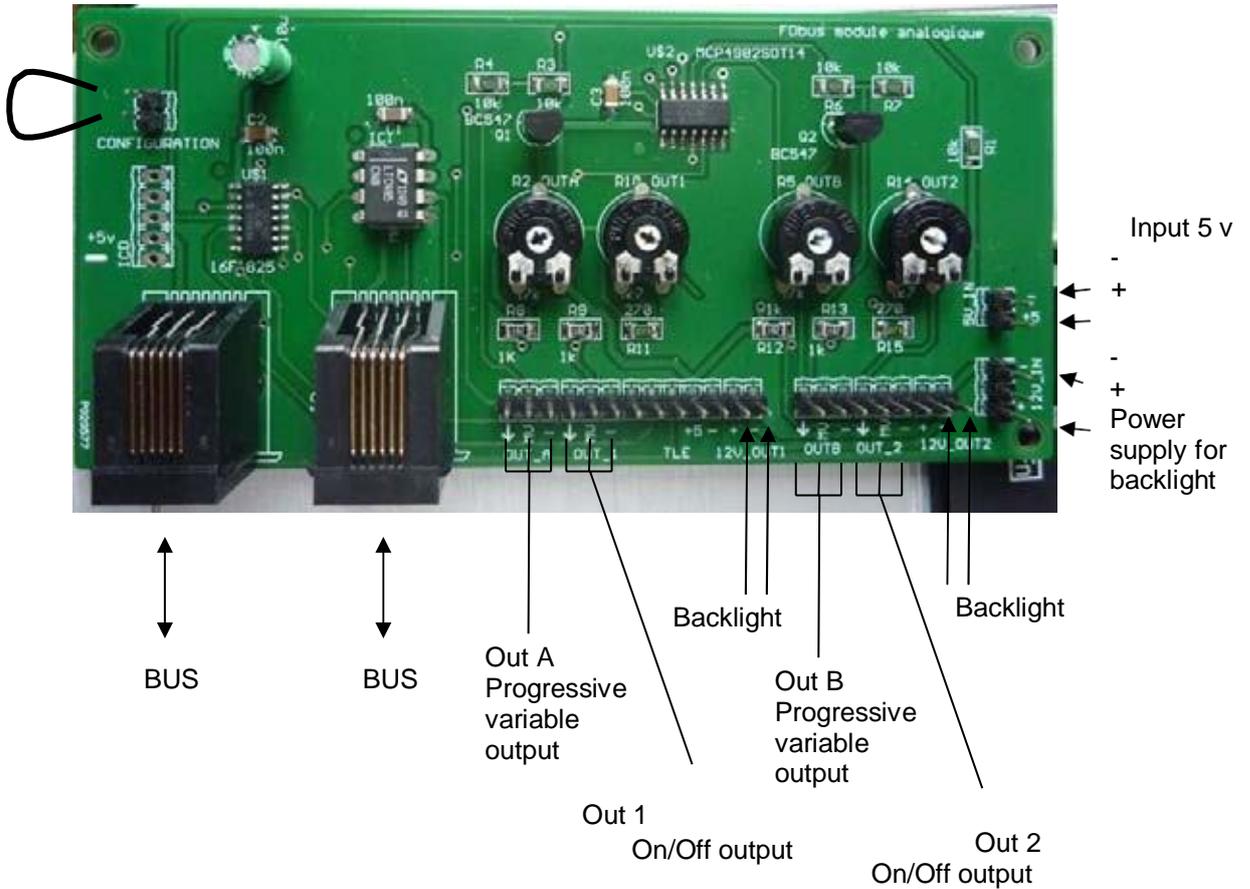


Module Servo

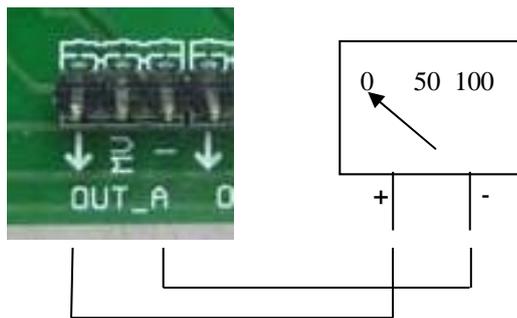


Module Analog

Config Strap



Example of simple galvanometer connection



Example of connection of galvanometer to 0 central

