QUICK TIPS

Fixturlaser SMC

Fixturlaser

ACOEM Group

Products

FIXTURLASER SMC

Fixturlaser SMC Trap

For connectors (USB, power supply, Ethernet...)

USB Cable for connecting the Fixturlaser SMC to a computer (import machine templates, customize report templates)

Fixturlaser SMC power supply

WIRELESS SENSOR

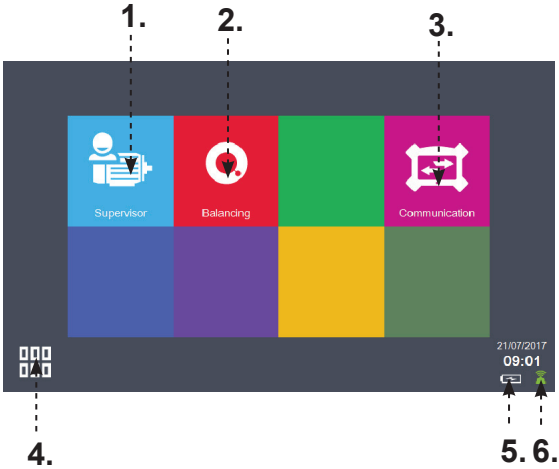
Protection of the USB input

USB Cable for the wireless sensor (power supply,firm-ware update)

Magnet with key for triaxial orientation

Wireless sensor power supply

First Start

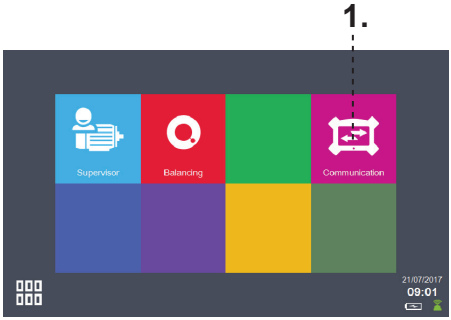


1. Start auto diagnostic
2. Start balancing
3. Connect to computer
4. Access to shortcuts (strobelight, pyrometer, camera, screenshots…) and preferences (license, language, type of sensor…)
5. SMC Battery status
6. Wireless sensor connection status.
   Note: if no icon appears, you must switch the sensor type from wired to wireless in the settings of the instrument

ON/OFF button.
Blue led flashing when ready

STEP 0

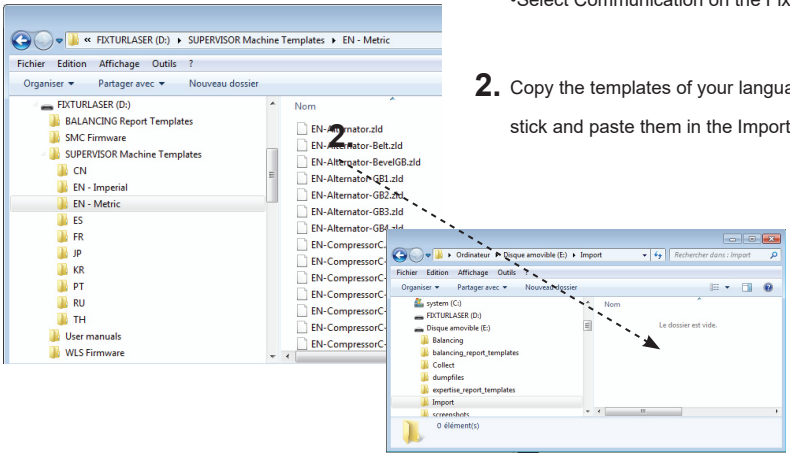
Import the templates in your language



All FIXTURLASER SMC are delivered as standard with English language templates in metric units (mm/s). Other languages and units are available on the USB stick delivered with the device

1. Connect your Fixturlaser SMC to the computer

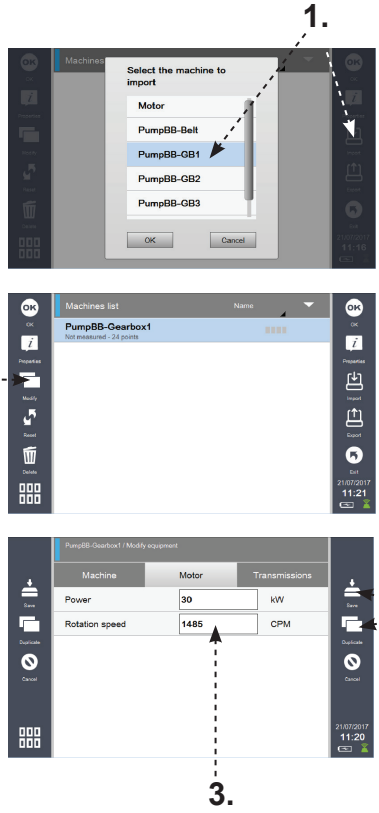
- •Open the trapdoor of Fixturlaser SMC
- •Connect the Fixturlaser SMC to the PC using the USB cable
- •Select Communication on the Fixturlaser SMC



2. Copy the templates of your language from the USB stick and paste them in the Import folder

STEP 1 — Setup

Create your machine



1. In the supervisor module, Click on « Import » and select the template that best describes your machine

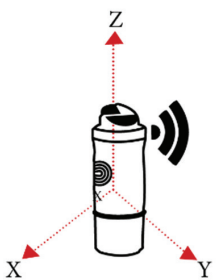
2. Click on « modify » to access to the machine kinematics information.

3. Change the name and characteristics of your machine (speed, power, type of mounting, if applicable: transmission information)
Note: for a reduction factor, input a value between 0 and 1. E.g 0.5 if the speed of the driven component is half of the motor speed

4. Save to modify the current machine or duplicate to create a new machine

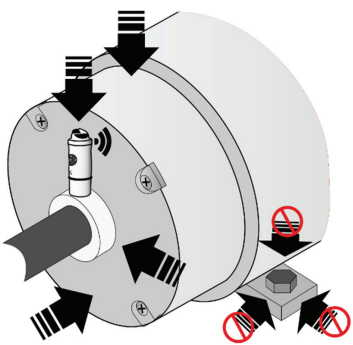
STEP 2 — Measurement

Position the sensor on the bearing



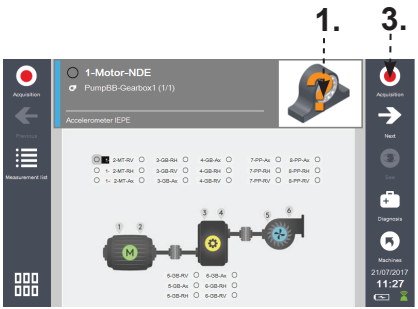
1. Put the sensor as close as possible to the bearing, in 2 steps to avoid damaging the sensor and magnet
   Caution: to get reliable measurements, do not place the sensor on the machine protective casing

2. Assign the sensor position on the machine using the X mark. It is recommended to keep it parallel to the shaft



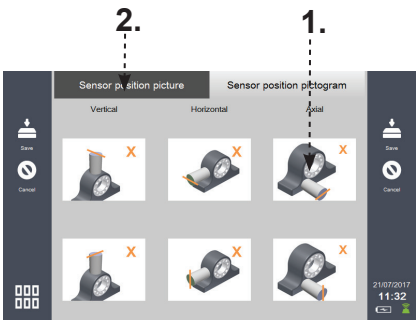
STEP 2 — Measurement

Select the sensor position



1. For each measurement point, you have to tell the system how the triaxial sensor is mounted on the machine: Select the corresponding pictogram on the device.

2. To enrich your report you can also take pictures of the triaxial sensor position on the machine, by going into the sensor position picture tab.



3. Click on Acquisition to start the measurement. Once finished, the SMC automatically goes to the next point. If the measurement cannot be taken, simply click Next to go to the next point. Note that the diagnostic accuracy will be reduced if you don't take enough measurements.

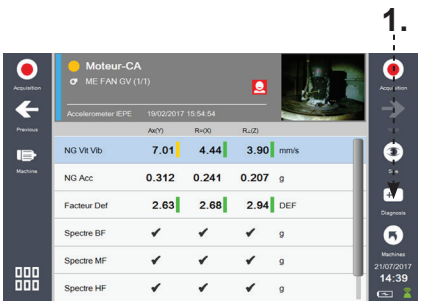
STEP 2 - Measurement

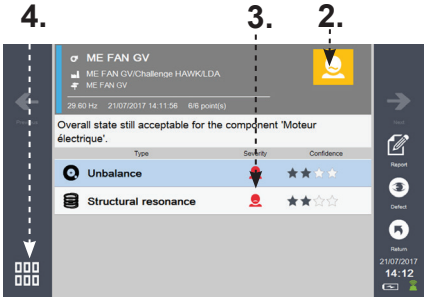
Adjust the rotation speed

The more accurate is the value of the rotation speed and the better will be the result of the automatic diagnostic. To check the speed with the built in strobe light:

1. Display the list of measurements
2. Open the low frequency spectrum « Spectrum LF »
3. Select the Harmonic cursor to best identify the right peak
4. Point to the peak around the expected rotation speed (eg a little below 25Hz for 1485RPM machine)
5. Call the strobe light from the shortcuts, adjust the speed with the arrows if needed to have the machine as static as possible, and save.

STEP 3 - Diagnostic





1. Once the measurement are finished, simply click on the diagnostic button.

2. See the global status of your machine directly on the Fixturlaser SMC

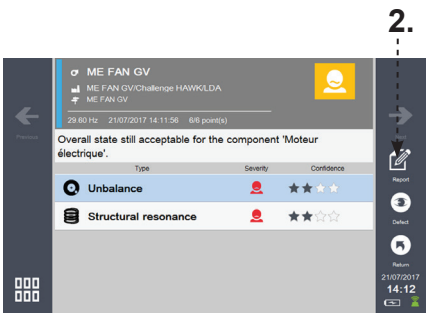
- Good: No action required
- Fair: Monitor the evolution
- Critical: Schedule corrective action

3. See the list of defects with impact level of the defect on the global status:

Orange = minor defect
Red = major defect

4. To enrich your diagnostic and report, you can take a picture, text note, voice notes or a temperature measurement by going to the shortcuts.

STEP 4 - Report



1. Open the trap and connect a USB stick key to the Fixturlaser SMC

2. On the diagnostic screen, type on the Report button. A full editable word report and related audio comment are placed in an Export folder on the USB Stick.

   Note: If you don't have a USB stick, connect your Fixturlaser SMC directly to the computer and go into the Export folder to get your report.

   Reports can be customized! To do so, modify the word file template in the instrument. For more information, please refer to the user manual.

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