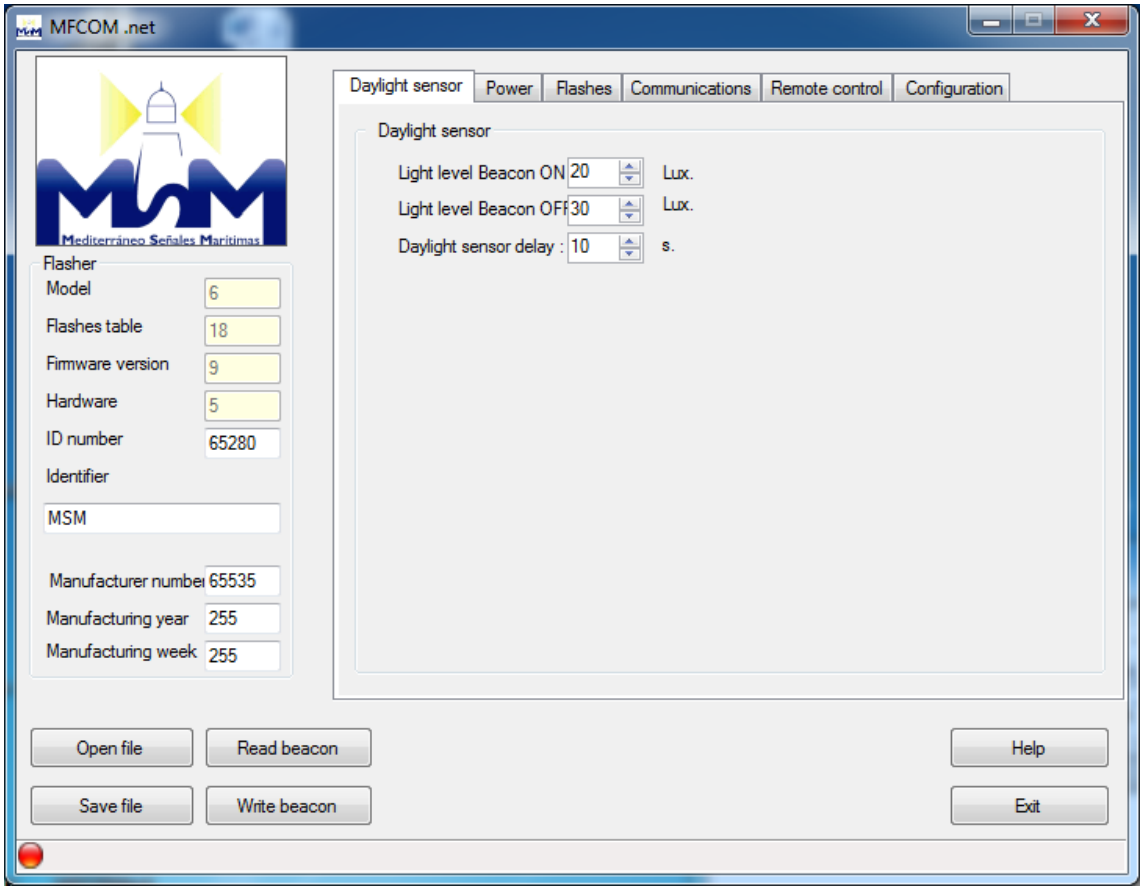
USER MANUAL

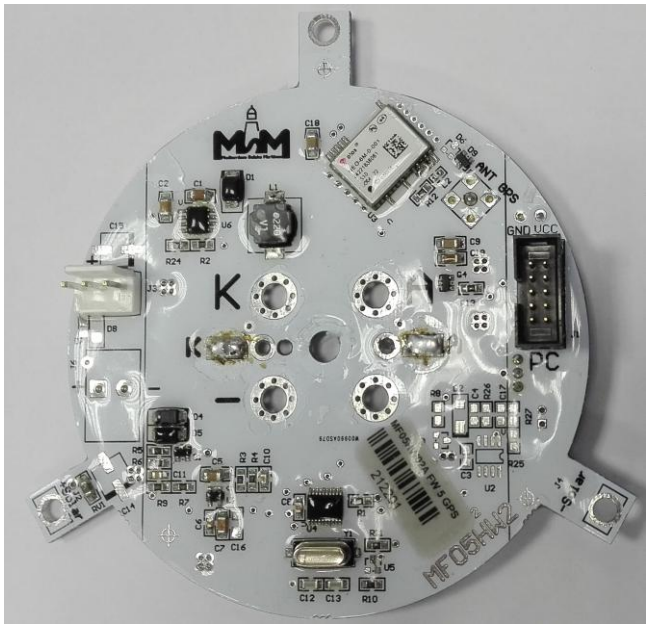
MFCOM MFCOM.net FLASHER MF05-06



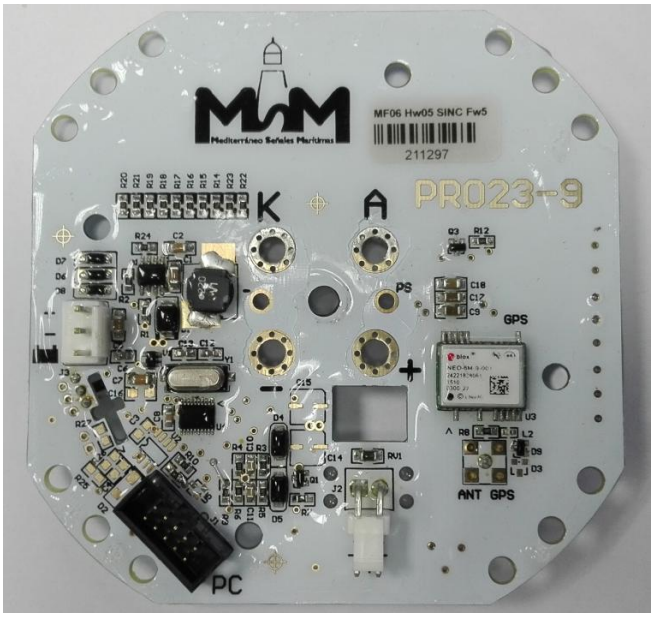
REF: MFCOM.net -MAN-ING		
REV	**DATE**	**REVISION**
01	15-11-12	Revision 4.0,1
02	13-05-13	Revision 4.0.4
03	05-03-15	Revisión 4.1.4
04	15-07-16	Revisión Mfcom.net

1. MF05-06 Flasher Configuration

The MFCOM.net Software is required for MF05-06 flasher configuration.



Destellador MF05



Destellador MF06

Flasher is set from factory and has no need for modifications. In case modifications of the original configuration are needed this software needs to be used. The MF05-06 Flasher communicates with PC, with the position the selector in TX (transmission).

The MFCOM.net allows the user to modify MF05-06 parameters such as the identifier, configuration, flashing parameters, power, etc.

Main functions:

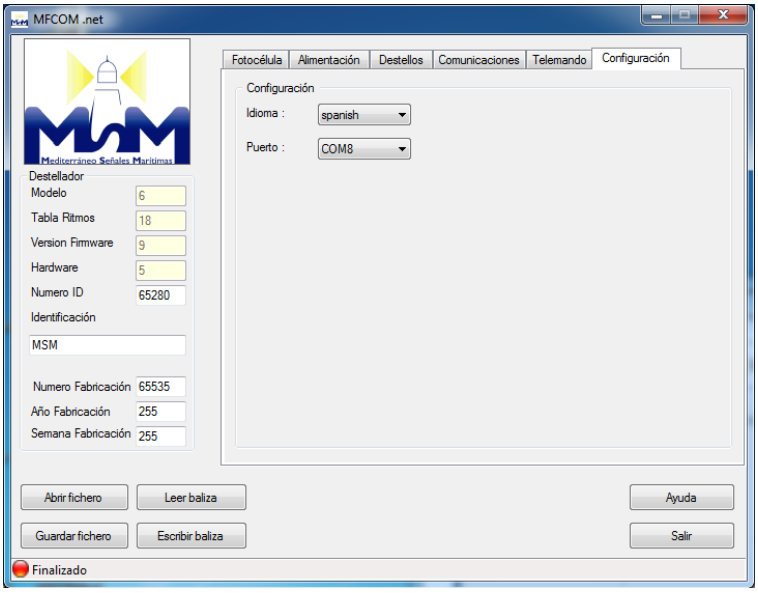
- 6 user's flash characters programming.
- Photocell sensitivity adjustment in Lux.
- Day-night offset: photocell delay from day to night.
- Synchronism offset mode selection to produce running lights
- Dimer mode for night reduction for leading lights.
- Adjustable LED intensity with reduction in %.
- Low battery voltage alarm configuration.
- Solar charge regulator settings configuration.
- Automatic screen adjustment to available functions in the flasher version.

To set the flasher, the following is required:

- Programming cable TX(A)
- MFCOM.net Software
- PC Windows based.

First, connect the battery to the beacon, and then connect the programming cable to the flasher and to the PC. Once those steps made, start the MFCOM.net.

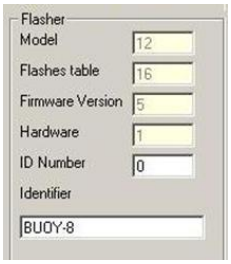
In the main screen of the MFCOM, select the serial port to be used to read the beacon. In this example, the COM8 is used.



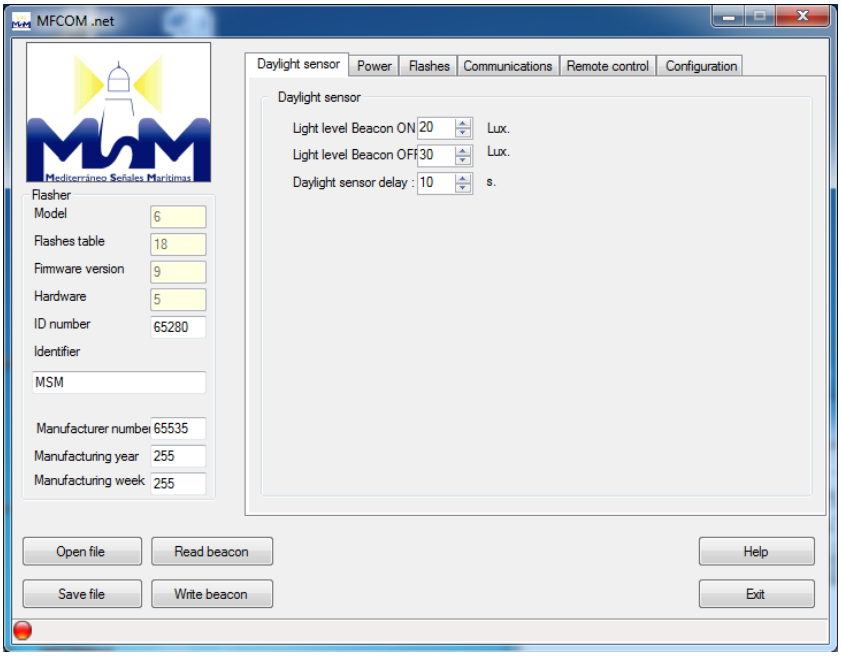
MFCOM Configuration

To start reading the flasher, click on the button “READ BEACON”. The data of the beacon will be identified and its parameters shown through tabs.
In the left side of the screen, the basic information of the flasher will be shown:

- Model.
- Flash Character Table.
- Firmware version.
- Hardware version.
- ID number.
- Identifier.



Once click on the “Read Beacon” button, the software shows the “Daylight sensor” tab, that shows the Lux levels for the beacon ON and for the Beacon OFF.



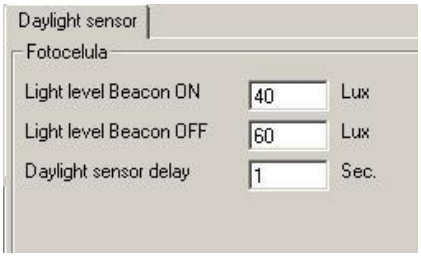
MFCOM Daylight sensor

1.1. FUNCTIONS DESCRIPTION

Read beacon	Current settings reception.
Write beacon	Parameter transmission
Save file	Save to PC configuration files.
Open file	Open PC old configuration files.
Edit Flashes	Access to the editing screen rhythms.
Exit	Exit the program.

1.2. PHOTOCELL ADJUSTMENT

The beacon on/off is controlled by the daylight photocell included in the beacon. The sensitivity of the photocell can be adjusted in different lux levels.

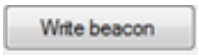


Recommended values for the photocell adjustment:

Light level beacon ON: 40 lux.
Light level beacon OFF: 60 lux.

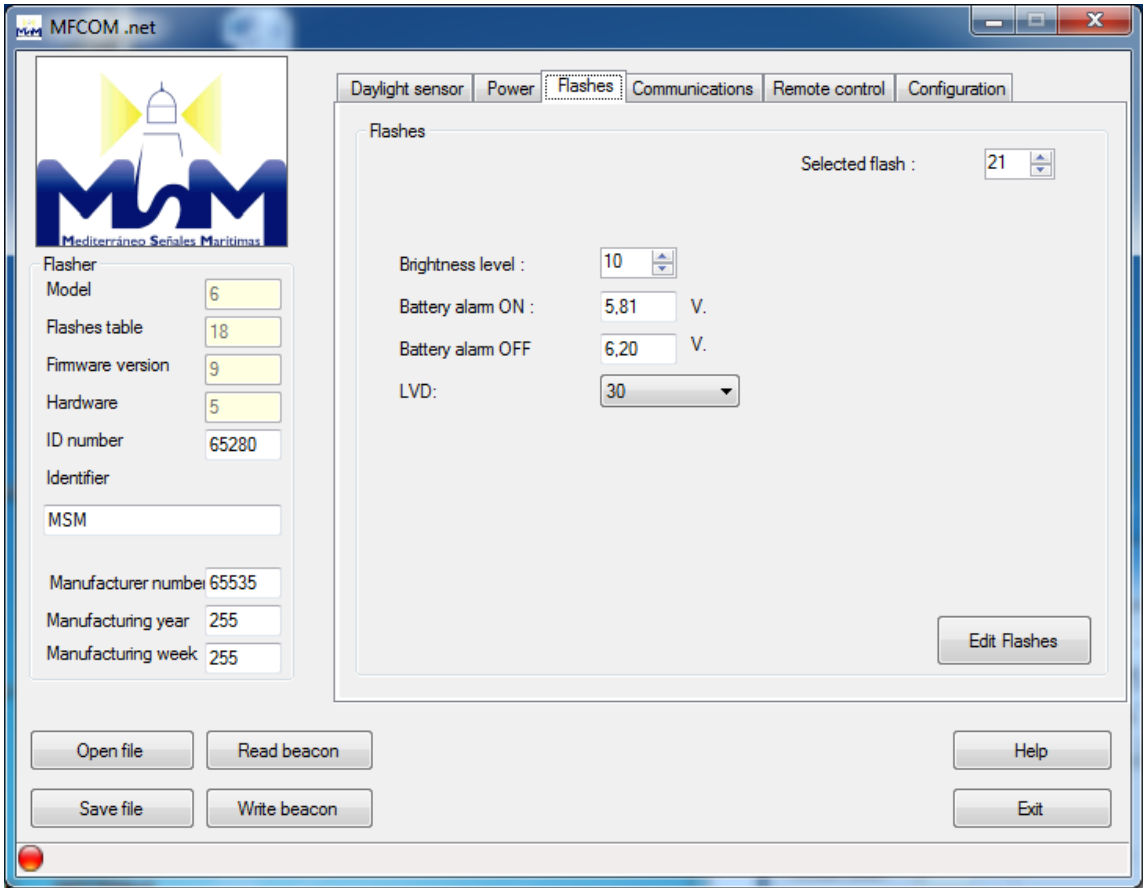
The daylight sensor delay is a delay in the activation of the beacon after detecting night in the photocell.

Once adjusted the new values, they have to be transmitted to the beacon through the button:



1.3. FLASH CHARACTER ADJUSTMENT

The menu allows the adjustment of the beacon flashes.



MFCOM Flash character

- ***LED light intensity%:*** This parameter is used to reduce the beacon intensity in order to reduce the power supply required by the beacon. In factory this value is 100%
- ***Battery alarm ON***: Voltage level for alarm activation.
- ***Battery alarm OFF***: Voltage level for alarm off.
- ***LVD***: The alarm generates in the beacon the LVD mode activation, in order to avoid the complete discharge of the battery and possible damages. The LVD mode has 4 options configurable by miniDIPs or software:
    1. Continue on operating at 100% consumption.(LVD OFF)
    2. Switch off the light in order not to discharge further the battery. (LVD ON)
    3. Reduce 30% the consumption (LVD 30%)
    4. Reduce 60% the consumption (LVD 60%)

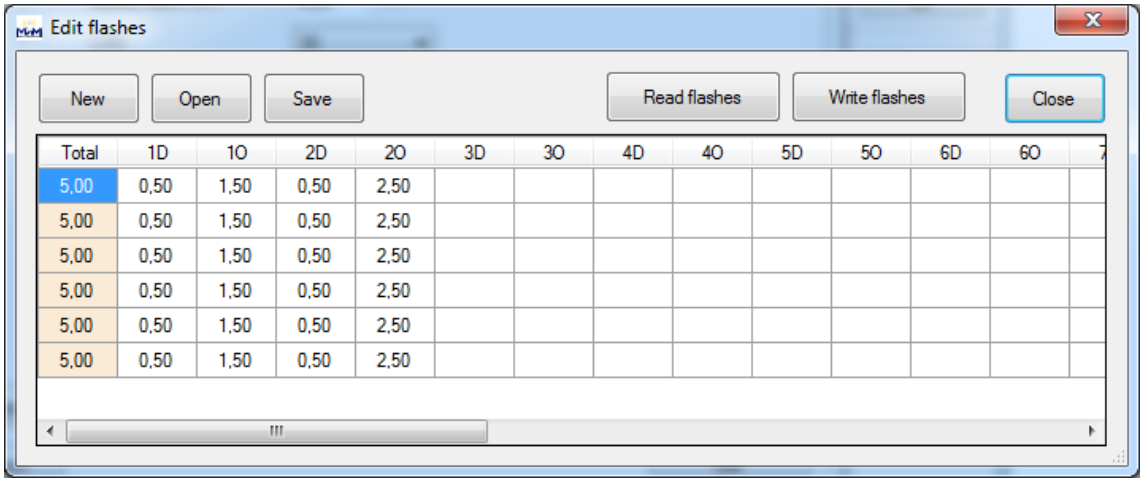
SOFTWARE ADJUSTMENT

(*)Reduction of consumption implies reduction on luminous intensity in the same proportion. Check that the lantern provides the proper range.

USER'S FLASHES EDIT

Flashes edit

This screen allows editing the 6 different user flashes rhythms from the flash table:



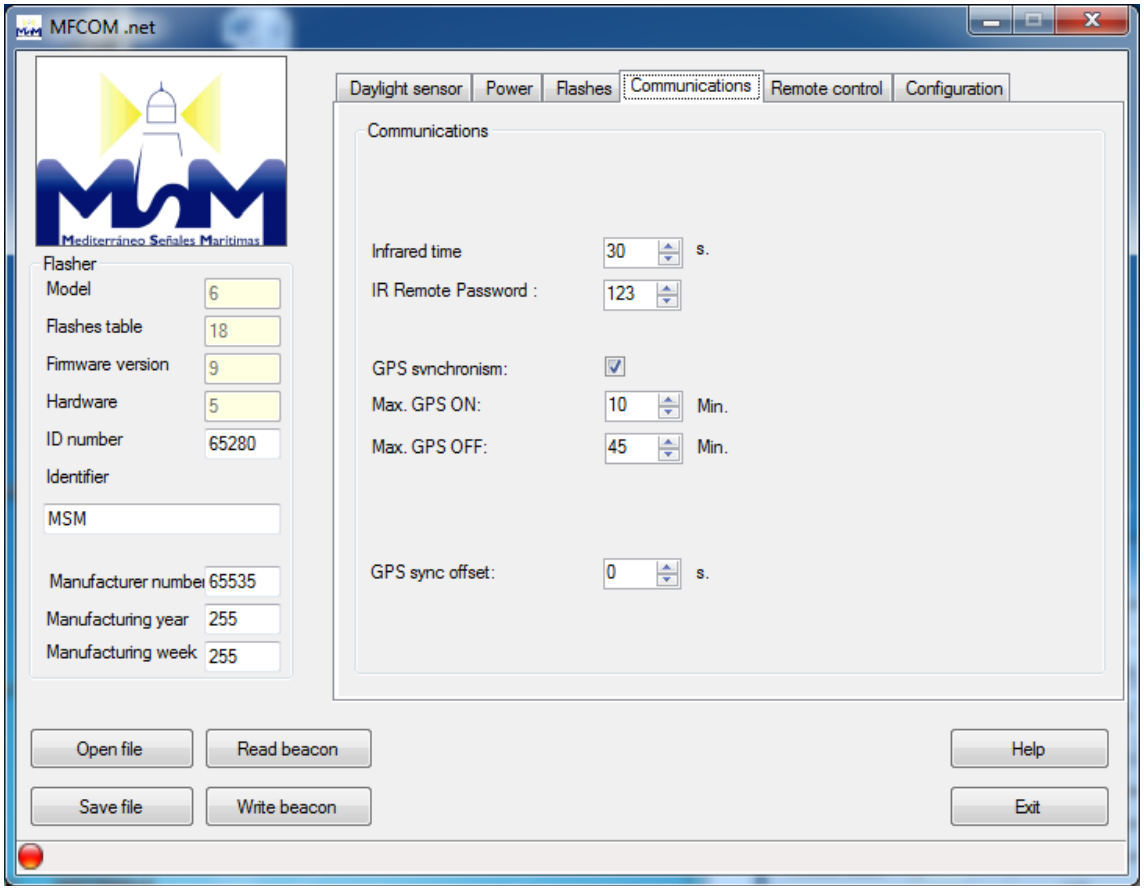
Flash character editor.

The maximum rhythm length allowed is 16 On/Off cycles.
'Save' to store the edited flashes to be used in the future.
'Read' to load the last flashes edited.
'New' to erase all the table data to start a new edition.

The edited flashes can be saved for other transmissions.
After the rhythm edition, the rhythm has to be transmitted form the main screen.

1.4. COMMUNICATIONS

The flasher can be remotely controlled by multiple ways. On this screen you configure the various options.



MFCOM Communications

1.4.1. SYNCHRONISM SETTINGS

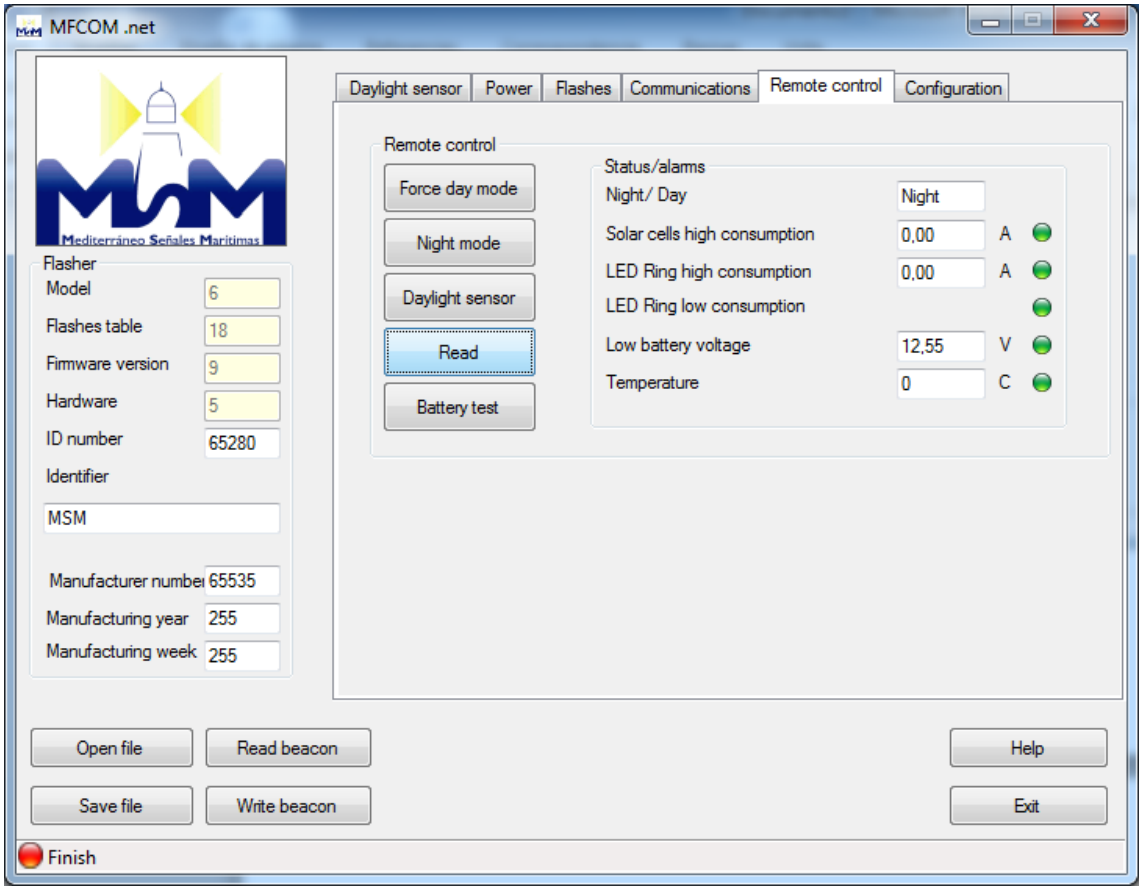
The flasher can be synchronized by cable or using the MFGPS synchronizer through GPS signals.

1.4.2. IR PROGRAMMER CONFIGURATION

The MF05-06 flasher has versions controlled by an IR programmer.
It allows remote configuration and lantern control.
The IR programmer has a configurable access password (123 by default)
The IR data reception is activated after a day/night step during a configurable time (60sec by default)

1.4.3. REMOTE CONTROL

MF05-06 flasher can be controlled by PC with RS232 serial connection and using this interface we can perform some functions remotely and receive instant performance data and possible alarms detected in the lantern.



MFCOM Remote control

In “Communications” the actual beacon status is shown. By clicking on “Read”, the results can be visualized, indicating if the beacon is on night or day mode, the voltage data, etc…and if the operation is correct it will be shown in Green. If there is any alarm for improper operation it will be shown in red dot.

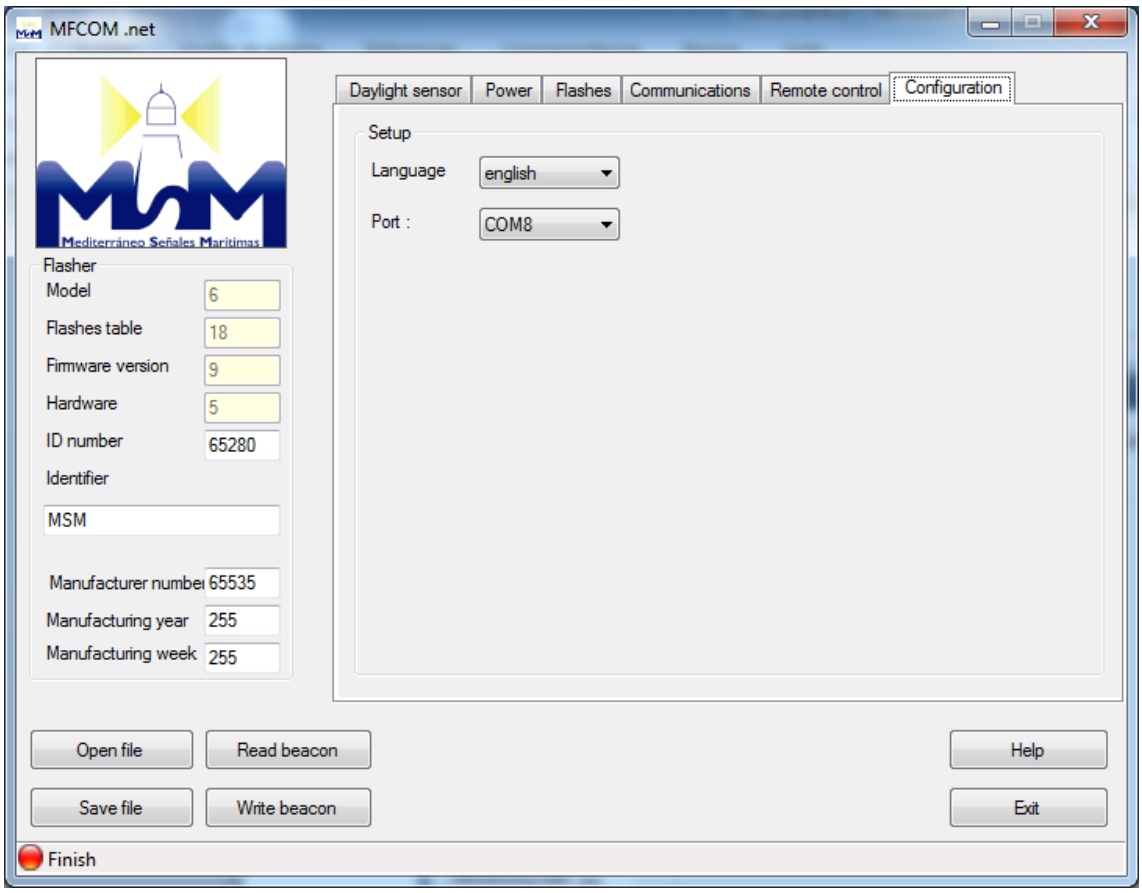
1.5. PROGRAM CONFIGURATION

1.5.1. LANGUAGE SELECTION

The MFCOM program can be configured for different languages in this tab.

1.5.2. SERIAL PORT SELECTION

The MFCOM software can communicate through different RS232 serial ports.



1.6. POWER

1.6.1. SELF-POWERED LANTERNS SOLAR SYSTEM CONFIGURATION

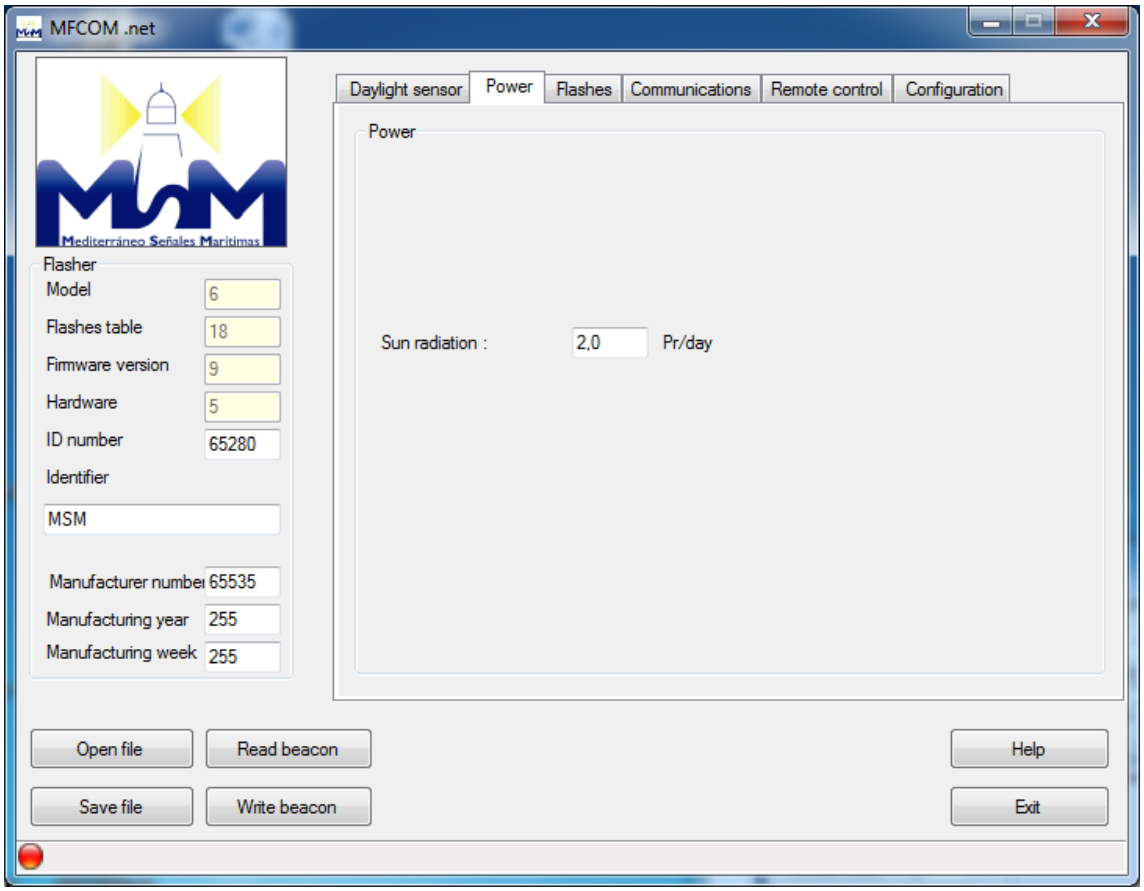
The solar system self-powered lanterns can automatically manage their energy balance to avoid excessive battery drainage during the winter months.
This automatic system, calculates the power applied to the LEDs depending on the consumption rate of programmed flash and solar radiation available in the place where the flashlight is installed.

Therefore we set the flashlight correctly if we use the "Self-Powered".

Solar radiation

We will program the equivalent peak sun hours in the worst month of the year according to the orientation of the flashlight panels.

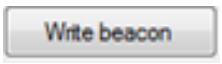
The data should be consulted in sources that allow us to determine the solar energy that the flashlight are going to have on the winter worst month.



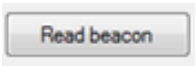
MFCOM Power.

1.7. UPDATE DATA

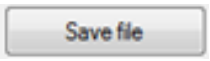
Once modified and adjusted the parameters, the modification will make effect when clicking on “Write beacon”, in order to load the information to the Flasher.



To check the correct saving of the modifications click on the “Read beacon” button to see if the modifications have been made.



The “Save” option allows to save the settings file and load it at any time.



Mediterráneo Señales Marítimas

Pol. Ind. Mas de Tous - C/ Oslo 12

46185 La Pobla de Vallbona - Valencia SPAIN

+34 96 276 10 22

msm@mesemar.com

www.mesemar.com