USER MANUAL

MFCOM MFCOM.net FLASHER MF05-06

MFCOM .net			_ _ ×
Hediterrineo Señales Hediterrineo Señales Flasher Model Flashes table Firmware version Hardware ID number Identifier MSM	6 18 9 5 65280	Daylight sensor Power Rashes Communications Remote control Configuration Daylight sensor Light level Beacon ON 20 ♀ Lux. Light level Beacon OFf 30 ♀ Lux. Daylight sensor delay : 10 ♀ s. s.	tion
Manufacturer number			
Manufacturing week			
Open file Save file	Read beacon		Help
•			



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				

INDEX

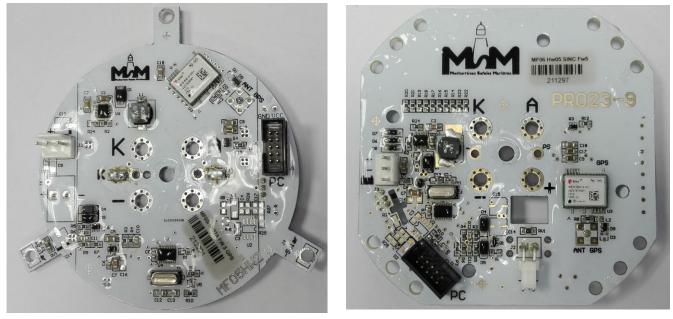
MFCOM.net Software

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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 .net	
Destellador Modelo Destellador Modelo Tabla Ritmos 18 Version Firmware 9 Hardware 5 Numero ID 65280 Identificación MSM Numero Fabricación 255 Semana Fabricación	Fotocélula Alimentación Destellos Comunicaciones Telemando Configuración Idioma : spanish • Puerto : COM8 •
Abrir fichero Leer baliza Guardar fichero Escribir baliza	Ayuda Salir
🛑 Finalizado	

MFCOM Configuration

Flasher Model

Flashes table

Hardware

ID Number

Identifier

BUOY-8

Firmware Version

16

1

In

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 .net					
Hechterrinea Seiden Rasher Model Flashes table Firmware version Hardware ID number Identifier MSM Manufacturer numbee Manufacturing year Manufacturing year	6 18 9 5 65280 65535 255	Light level Beacon OFF30	Communications ↓ Lux. ↓ Lux. ↓ Lx. ↓ s.	Remote control	Configuration
Open file Save file	Read beacon Write beacon				Help
•					

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 Rashes	Access to the editing screen rhythms.
Ext	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.

Fotocelula		
Light level Beacon ON	40	Lux
Light level Beacon OFF	60	Lux
Daylight sensor delay	1	Sec

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:

Write beacon



1.3. FLASH CHARACTER ADJUSTMENT

The menu allows the adjustment of the beacon flashes.

MFCOM .net		
Hardiversines Señales Maritimas Rasher Model Bashes table Rashes table Immware version Hardware 5 ID number 65280 Identifier MSM Manufacturer number 6535 Manufacturing year 255 Manufacturing week 255	Daylight sensor Power Flashes Communications Remote control Flashes Selected flash Selected flash Brightness level : 10 10 Battery alam ON : 5,81 V. Battery alam OFF 6,20 V. LVD: 30 Image: Communication of the second seco	Configuration h : 21 -
Open file Read beac Save file Write beact		Help

MFCOM Flash character

- <u>LED light intensity%</u>: 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.
- <u>LVD</u>: 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

LVD	100	• %
210	100	
	0	-
	60	<u> </u>

(*)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

New	0	pen	Save				Rea	d flashes		Write flash	es	Clos	se
Total	1D	10	2D	20	3D	30	4D	40	5D	50	6D	60	
5,00	0,50	1,50	0,50	2,50									Τ
5,00	0,50	1,50	0,50	2,50									Τ
5,00	0,50	1,50	0,50	2,50									T
5,00	0,50	1,50	0,50	2,50									T
5,00	0,50	1,50	0,50	2,50									T
5,00	0,50	1,50	0,50	2,50									T

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 .net			
	Daylight sensor Power F	Remote contro	ol Configuration
Mediterráneo Señales Maritimas Flasher Model <u>6</u> Flashes table <u>19</u>	Infrared time IR Remote Password :	30 <u>*</u> s. 123 <u>*</u>	
Flashes table 18 Firmware version 9 Hardware 5 ID number 65280	GPS svnchronism: Max. GPS ON: Max. GPS OFF:	 ✓ 10 → Min. 45 → Min. 	
Identifier MSM Manufacturer number 65535	GPS sync offset:	0 ▲ s.	
Manufacturing year 255 Manufacturing week 255			
Open file Read beacon			Help
Save file Write beacor			Exit

MFCOM Communications

1.4.1. SYNCHRONISM SETTINGS

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

GPS synchronism:	V		
Max. GPS ON:	10	*	Min.
Max. GPS OFF:	45	٢	Min.
GPS sync offset:	0	٢	s.



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)

Infrared time	60	Sec.
IR Remote Password	123	





<u>1.4.3. REMOTE CONTROL</u>

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 .net			×
Hasher 6 Hasher 6 Hashes table 18 Firmware version 9 Hardware 5 ID number 65280 Identifier 6	Daylight sensor Power Remote control Force day mode Night mode Daylight sensor Read Battery test	Flashes Communications Remote control Status/alarms Night/ Day Solar cells high consumption LED Ring high consumption LED Ring low consumption Low battery voltage Temperature	Image: Configuration Night 0,00 A 0,00 A 0 • 12,55 V 0 C
MSM Manufacturer number 65535 Manufacturing year 255 Manufacturing week 255			
Open file Read beacon Save file Write beacon Finish			Help Exit

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.

MFCOM .net		_	_		_ _ X
Hediterranco Señales Maritimas Rasher Model Basher Model Flashes table IB Firmware version 9 Hardware 5 ID number 65280 Identifier MSM Manufacturer number 65535 Manufacturing year 255 Manufacturing week 255	Daylight sensor Setup Language Port :	Power Flash english COM8	es Communications	Remote control	
Open file Read beacon Save file Write beacon					Help Exit



<u>1.6. POWER</u>

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 .net			
Mediterránco Señale	s Maritimas	Daylight sensor Power Flashes Communications Remote control Configuration Power	
Flasher			
Model	6		
Flashes table	18	Sun radiation : 2,0 Pr/day	
Firmware version	9		
Hardware	5		
ID number	65280		
Identifier			
MSM			
Manufacturer numb Manufacturing year Manufacturing wee	255		
	233		
Open file	Read beaco	Help]
Save file	Write beaco	Edit	
0			

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.

Write	beacon

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.

5	ave	file	
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