



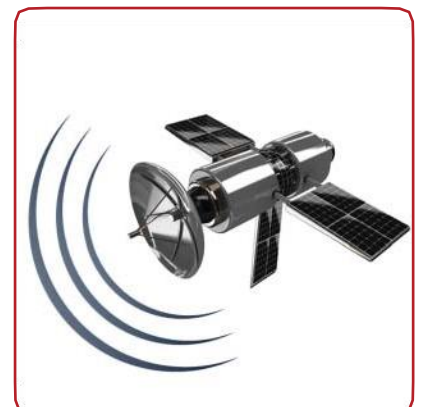
MFGPS position and synchronisation module is a device with double function. On the one hand, it is used to determine buoy positioning and, on the other hand, to synchronise lanterns through a GPS receiver of 12 channels.

Even if it is especially designed to be connected to a MF flasher, it allows to establish a synchronisation with lanterns from other manufacturers; since the synchronising delay can be adjusted with the programming software.

The MFGPS second function is to watch the aid to navigation positioning, in such a way that, if it is placed on a buoy, the maximum allowed swinging radius can be programmed, causing an alarm if the buoy exceeds the established limit.

## FEATURES

- ✓ High-sensitivity GPS satellite reception module of 12 channels, with integrated antenna.
- ✓ It allows flash synchronisation between lanterns from MSM and the ones from other manufacturers.
- ✓ A configurable sleep mode is available in order to save energy.
- ✓ Initial self-detection of buoy position coordinates is made automatically, no manual configuration is needed.
- ✓ Free-communication protocols, which allows the user to utilise his own control centre or use them for any other application needed.
- ✓ Mooring chain breaking alarm by GPS positioning (for buoys).
- ✓ Configurable maximum allowed swinging radius.
- ✓ Setting by PC.
- ✓ Remote configuration via GSM, radio or e-mail, depending on the communication system used.



# POSITION/SYNCHRONISATION MODULE MFGPS



Specifications subject to change without previous notice.

## MFGPS module features

Information on buoy positioning in WGS84 real time, including swinging radius in metres.

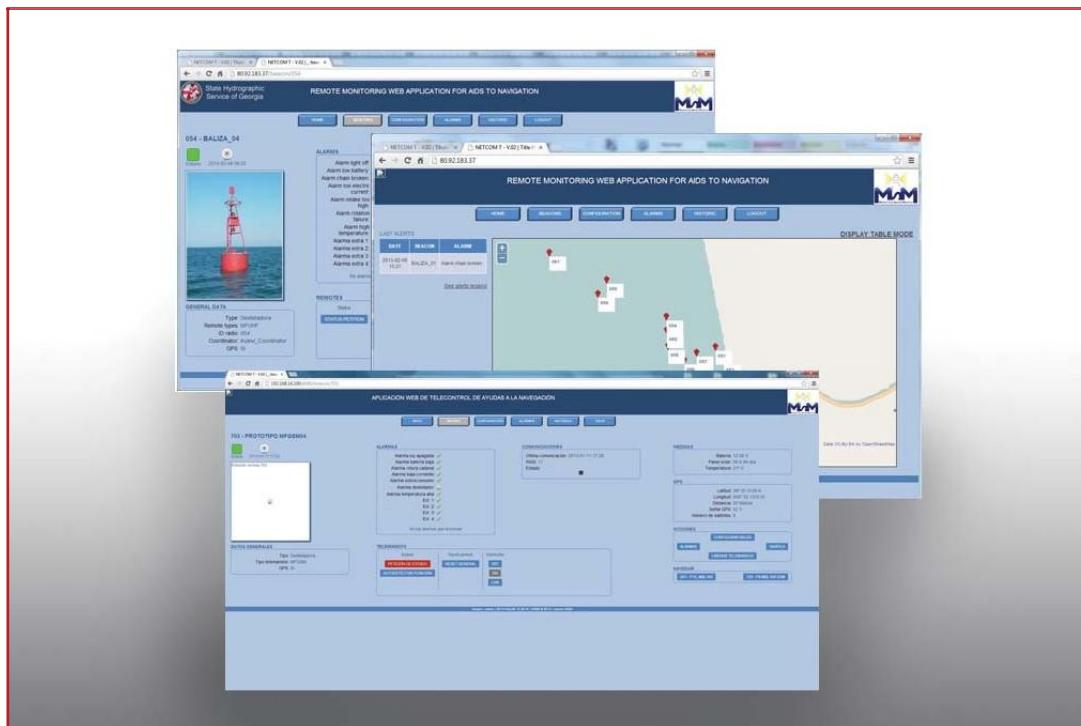
Flash synchronisation between beacons with the possibility of sequential lights with programmable offset.

Time and date according to GPS satellite signal, with self-adjusting for time zone.

Alarm detection on mooring-chain breaking in buoys.

Initial self-detection of buoy position coordinates at time of installation.

High-sensitivity GPS satellite reception module, 12 channels, with integrated antenna.



## Technical specifications

Voltage:	From 4 to 32V c.c.
Average consumption:	5 mA.
Programming:	PC (hiperterminal). Remote via GSM, radio or e-mail, depending on communication via.
Operation modes:	Synchronisation or position plus synchronisation.
GPS receiver:	12 channels, with integrated antenna.
Positioning format:	WGS 84.
Synchronisation accuracy:	2 ms.