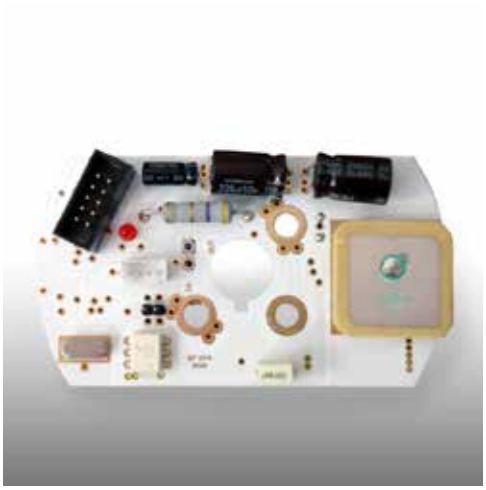
MFGPS

Position/Synchronisation Module



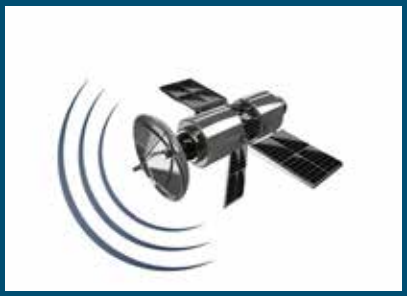
MFGPS position and synchronisation module is a device with double function. On the one hand, it is used to determine buoy positioning and, on the other hand, to synchronise lanterns through a GPS receiver of 12 channels.

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.



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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.

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