



# MFGSM

## TECHNICAL SPECIFICATIONS

<b>Power input:</b>	From 5.5 to 35V.
<b>Daily average consumption:</b>	10 mA (GSM) 15 mA (GSM+GPS).
<b>Temperature range:</b>	-30° to 60°C.
<b>GSM/GPRS module:</b>	850, 900, 1,800 y 1,900 MHz. Quad-band, worldwide coverage.
<b>Digital Inputs:</b>	4 par optocoupleurs.
<b>Digital outputs:</b>	1 output optocoupleurs.
<b>GPS MFGPS receptor:</b>	12 channels.

## OPERATION COST

SMS text message cost.

It only informs in case of alarms or commands.

Adjustable maximum limit of messages per day.

Any operator under contract or prepayment mode.

Special GSM operator contract to M2M.

## SECURITY

Authorized user passwords.

SIM card protection by access code.

Register of alarms sent.

## OPTIONS

GPRS communication module.

MFGPS position/synchronisation module.

Other status/alarm signals and commands available under request.

## MFGSM MODULE FEATURES

Communication by means of SMS messages.

4-band GSM/GPRS communication module with integrated antenna, for use at worldwide level.

Sending of status and alarms by means of SMS short messages.

Direct interrogation from mobile phone or control centre.

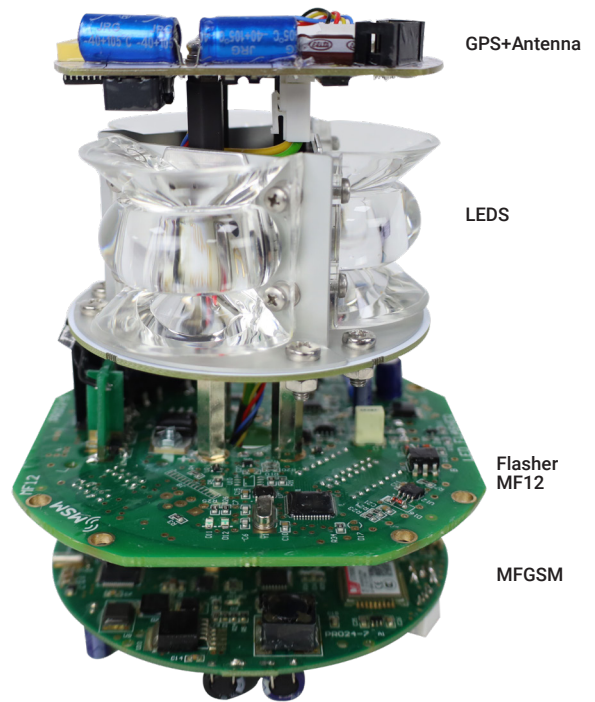
Independent communication module from flasher, improving safety and global reliability.

Alarm detection on beacon operation, power supply and mooring-chain breaking in buoys.

Remote re-programmable via SMS and GPRS.

Protection system through passwords and authorized users.

4 nos. configurable digital inputs by user (impact detection, tamper, intrusion, etc.).



## LANTERN STATUS SIGNALS

Lantern off.

Mooring-chain breaking by GPS positioning (for buoys).

Battery voltage reading.

LED current consumption reading.

Solar charging reading in accumulated Ah/day.

## ALARM SIGNALS

Lantern off.

LED diodes failure.

Mooring-chain breaking.

Low battery voltage.

Flasher failure.

Photocell failure.

Wrong flashing rhythm.

Excess consumption of the lantern.

Solar module charge failure.

## COMMANDS FROM USER/ CONTROL CENTRE TO BEACON

Report request on beacon general status.

Day-Night mode change.

Flasher reset.

GPS reset (when included).

GSM reset.

General system reset.

Position self-detection.

Change of MFGSM configuration by SMS.

Alarm acknowledgement by users.



Specifications subject to change without previous notice.