

## MTF

### Designed to manage lighting and rotating lighthouse systems

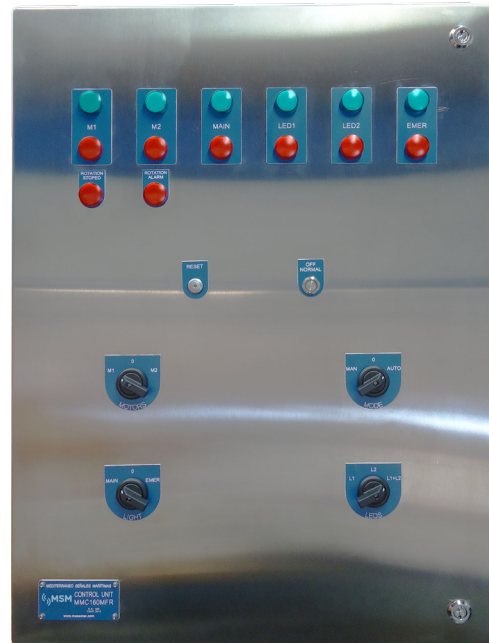
The MTF control unit has been especially designed to manage lighting and rotating lighthouse systems. Based on a programmable logic controller, fitted with all necessary elements for a complete operation. Its universal construction provides an easy adaptation to any type of existing lighthouse system.

### Manufactured according to customer needs

This cabinet is manufactured specifically according to customer needs, without the need to use a programmable logic controller.

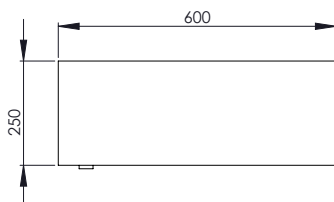
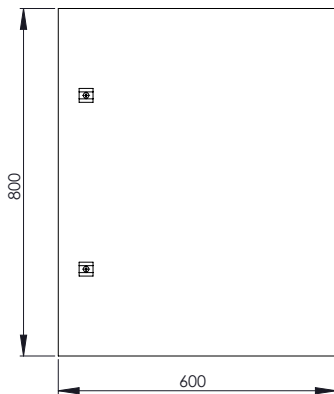
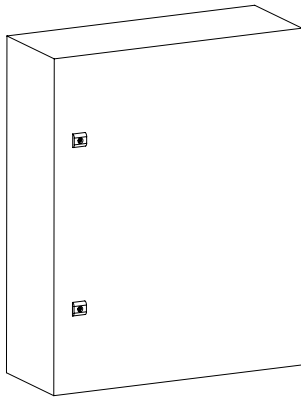
### Connexion to a Remote Monitoring System

Inputs and outputs allow their connexion to a Remote Monitoring System. Optionally, a modem can be incorporated to transmit data to a Control Centre.



## FEATURES

- Compatible with rotating and flashing lighthouses and beacons, with lamps and LEDs.
- Control and management of lampchangers and rotating motors, both a.c. and d.c.
- Automatic activation by external photocell. Main lamp to standby lamp switch-over in case of failure, making the same function from main motor to standby one when necessary.
- Emergency beacon activation in case of main system failure.
- Manual operation selectors.
- Rotation alarm detection for lighthouses by magnetic rotation sensor.
- Motor and lamp thermal protection against short-circuits.
- Protections against reverse polarity and atmospheric surges.
- Tailor-made cabinet according to customer requirements.



## Technical specifications

<b>Power supply range:</b>	From 12 to 24 V d.c. From 120 to 240 V a.c.
<b>Daily average consumption:</b>	40 mA.
<b>Max. lamp power:</b>	3,000 W.
<b>Max. motor power:</b>	2,500 W.
<b>Internal back-up battery:</b>	12/24 V - 12 Ah.
<b>Connexions to Remote Monitoring System:</b>	RS-232 serial port and potential-free contact terminals.
<b>Temperature range:</b>	From -30° to 65°C.
<b>Watertightness degree:</b>	IP 65.
<b>Material:</b>	Stainless steel.
<b>Dimensions:</b>	800 x 600 x 250 mm.

## Automatic basic functions

- Day/night control (light-sensitive photocell).
- Main lamp control.
- Standby lamp control.
- Lampchanger control.
- Main rotating motor control.
- Standby rotating motor control.
- Emergency beacon control.
- Control of the mains voltage for switching to emergency beacon, in case of main system failure.

*Note: The unit has manual selectors for each one of the above functions, both for maintenance and emergency works in case of PLC failure*

## Manual control

- Main lamp activation:** Standby rotating motor activation.
- Standby lamp activation:** Emergency beacon activation.
- Main rotating motor activation:** General system reset.
- Standby power supply system activation.

## Operating status and alarms

- Operating lamps: main or standby beacon.
- Operating motor: main or standby motor.
- Main beacon supply voltage.
- Standby beacon battery voltage.
- Standby beacon battery charging current.
- Main beacon switch off.
- Power supplies switch off: main and standby.
- Standby beacon and standby power supply system activation.

## Options

- Diesel generator control.
- Fire sensor control.
- Tamper sensor control.
- Surveillance camera control.
- Connexion modem to Remote Monitoring System.
- Expansion module with additional inputs and outputs.



Specifications subject to change without previous notice.