MMB02

DAUGHTER BOARD

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Ideal for offshore platforms

The MMB02/MMB03 daughter board is a universal device especially designed for aids-to-navigation equipment monitoring, in particular lighthouses and beacons. Due its versatility, it is ideal for offshore platforms, since all the aids to navigation can be controlled by it.

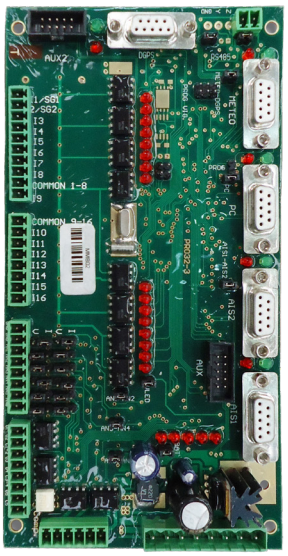
Fitted with 6 nos. RS-232 serial ports

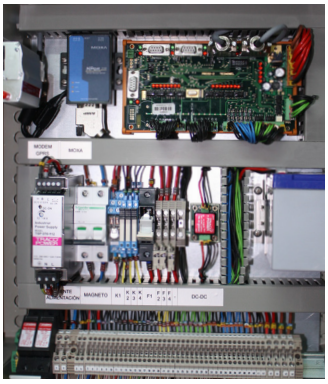
It allows external beacon monitoring and also conversion to Standard IEC protocol, to be connected to an AIS AtoN unit.

Fitted with 6 nos. RS-232 serial ports for data acquisition, other equipment interface and programming. Besides, this device can be connected to any communication means (GSM-GPRS, radio, satellite, IP broadband, microwaves technology, optical fibre, etc.). Additionally, it includes a RS-485 serial port to connect all type of sensors, analogical or digital, in order to obtain meteorologic or oceanographic data.

Low power consumption

Designed taking into account a low power consumption, for the use of solar modules.





FEATURES

- *Large number of digital and analogical inputs and outputs.*
- *Equipment controlled by last generation microprocessor, with CMOS of 32-bit technology, which allows data transmission in real time.*
- *E2PROM memory for all parameters of configuration.*
- *Input and output signals protected through an optocoupled collector.*
- *6 nos. RS-232 serial ports and a RS-485 serial port.*
- *Daily average power consumption of 25mA at 12V.*
- *A configurable "sleep" mode is available to save energy.*
- *PC programming software for timing and parameter editing.*
- *Firmware able to be updated in site.*
- *Protected against reverse-polarity and atmospheric surges.*
- *Housed in a support with DIN rail fixation, which allows to be replaced very easily and fast.*

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TECHNICAL SPECIFICATIONS

Power input:	From 10 to 36V c.c.
Daily average consumption:	25mA (12V).
Temperature range:	From -30º to 60ºC.
Unidad Control:	CMOS 32-bit microprocesor.
Data storage:	E2PROM memory.
Fixings:	DIN rail.

OPTIONS

Current profiler HTP50 up to 50A d.c. and a.c.

GPS and DGPS module (MFGPS).

GSM (MFGSM), VHF, UHF (MFUHF), Iridium, ADSL modem.

AIS Transponder (MTU AIS).

Input/Output expanding MMB-E module.

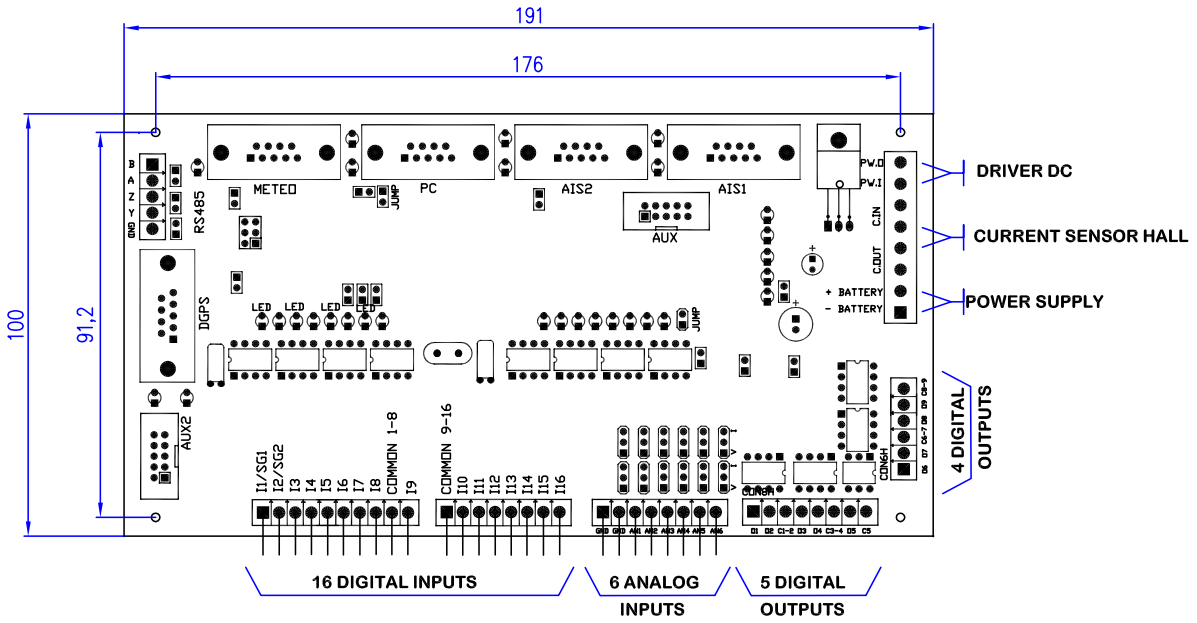
Meteo/Oceanographic Sensors (availability to include MSM sensors).

INPUTS AND OUTPUTS

Digital inputs:	16 nos. opto-coupled inputs of alarms or status, configurable logic and timer.
Digital outputs:	9 nos. Mosfet outputs, 3A maximum. 1 no. 10A Mosfet power output for emergency beacon or racon.
Analogical Inputs:	8 nos. V or I inputs with ranges from 0-36V / 0,100mA with programmable alarms. 1 no. current profiler up to 15A (up to 50A as an option).

COMMUNICATION PORTS

AIS:	2 nos. RS-232 serial ports for modem or AIS unit connexion.
PC:	1 no. RS-232 serial port for PC programming.
METEO:	1 no. RS-232 serial port for sensors or modems.
DGPS:	1 no. RS-232 serial port for DGPS module.
RS-485:	1 no. RS-485 serial port for bus topology connection.
AUX:	1 no. RS-232-TTS* serial port for MF12 flasher or IDC10 modem.



Specifications subject to change without previous notice.

MSM

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