

GMDSS A2/A3/A4 CONTROL PANEL

GMDSS electrical panel for zones A2/A3/A4 according to the Maritime Radiocommunications Regulations. (R.D. 1185/2006)

Approved and recognized by the D.G.M.M. radio inspection.

The GMDSS Control Panel for zones A2/A3/A4 guarantees the maintenance of onboard communications in the event of a total or partial power failure. Partial corresponds to a voltage drop that prevents the equipment from working at maximum power and would prevent effective communications.

Using two independent power supplies, general or service power and reserve power or GMDSS, the panel is responsible for automatically switching power if the main power fails, without interruption in communications, monitoring the power status of both power circuits and activating alarms. corresponding if necessary. The Panel has, in accordance with current legislation, two work modes, automatic mode and manual mode.

AUTO operating mode:

1 – In AUTO mode the Panel connects to the Service Power whenever it is greater than 90%, of the required voltage otherwise it switches to the Reserve Power (GMDSS), said switching is carried out without interruption in communications. both in radio transmission and in GPS reception, visually and acoustically indicating the supply failure.

2 - When the voltage in the Service Power is recovered, the Panel will return to its previous state without the need for any action, automatically canceling the corresponding alarms.

MANUAL operating mode:

In manual mode, the panel powers the connected equipment directly from the GMDSS batteries: MF-HF, VHF, GPS, INMARSAT, NAVTEX, AIS, LIGHT... etc., these depend on these batteries regardless of the state of the main power supply or Service. Consumption and voltage monitoring is maintained and a visual and acoustic warning is given that it is operating with the reserve power supply or GMDSS.

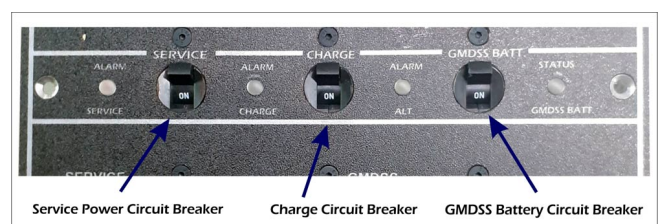
The Panel consists of 6 visual alarms and 1 common acoustic alarm.:

- 1- Flashing red light: Main power or service failure.
 - 2- Red light: GMDSS battery charging failure
 - 3- Red light: Service battery charging generator power failure (Optional)
 - 4- Green light: GMDSS battery status. on-off
 - 5- Red light on Manual button (Power from GMDSS)
 - 6- Blue light on the Services button (Power from SERVICES)
- 5 and 6: Blue and Red Light simultaneously: The Panel has changed to Manual automatically.
The acoustic alarm can be canceled manually. Although it will be activated again if it receives a new alarm.

GMDSS Battery Charging and Power Circuit Breakers

Charging of the reserve batteries or GMDSS is carried out from an external automatic charger through the GMDSS Panel as required by legislation. From the Panel it is controlled that this load remains connected through a 50A hydraulic magneto circuit breaker with its corresponding alarm. It is necessary for said Load to pass through the Panel to be able to monitor it and activate the corresponding alarm regardless of the characteristics of the charger used.

This Load circuit breaker with manual activation and deactivation allows us to directly control the status of the GMDSS batteries using the voltmeter and ammeter and the STATUS GMDSS light.



The magneto-hydraulic power supply circuit breakers for Services and GMDSS, in addition to controlling maximum consumption at 50A, allow us to quickly and easily test the status of both power supply circuits and the Panel itself.

Manually connected panel, there is no service power and the equipment is powered from the GMDSS batteries



Equipment power circuit breakers

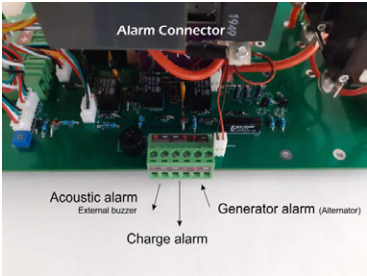
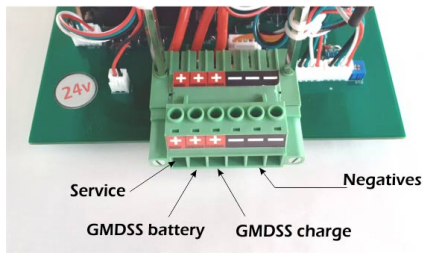
Each of the connected devices, 6 or 10 depending on version: "MF-HF, VHF, GPS, INMARSAT, NAVTEX, AIS, LUZ... etc. have their hydraulic magneto circuit breaker with their connected light, these can be defined according to the equipment necessary for each particular case.



Installation and connections:

Installation using Plug-In connectors is quick and simple, and it is not necessary to install SHUNTS for the ammeters nor are additional adjustments necessary.
The Panel has a signal connection for Load and Acoustic alarms to be able to externalize them.

Power Connector



Main features:

- * Optional 24v/12v power supply.
- * 6 or 10 power outlets, depending on version, for equipment with magneto-hydraulic protection
 - 1 Output of 40A max. 24v (MF-HF - Standard Version)
 - 5 Outputs of 16A max. 24v (VHF-GPS-NAVTEX- AIS - LIGHT - Standard version)
- * GMDSS Battery Charge 50A max. External charger not included.
- * GMDSS Battery Power 50A max.
- * Main power supply services 50A max.
- * Voltage drop <1%
- * Maximum dimensions 264 x 193 x 150 mm version 6 Breakers.
- * Maximum dimensions 264 x 324 x 150 mm version 10 Breakers..



Versión estándar sin logo.



Versión 10 Disyuntores personalizado

GMDSS CONTROL PANEL 24V/40A

