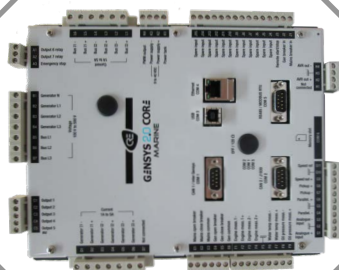




# MARINE SOLUTIONS



**Innovation**  
for  
better  
**control**





Our range of marine certified products can meet a maximum of marine requirements: synchronization and power management, uneven load sharing protection, paralleling between generators and with shore, heavy consumer management, non-essential consumer trip, ...

## MODULES

### GENSYS 2.0 MARINE

All-in-one paralleling unit for marine applications: PMS

The **GENSYS 2.0 MARINE** is a control unit designed for marine switchboard. This Power Management System unit combines all necessary functions:

- Engine start/stop and protections,
- Alternator control and protections,
- Mechanical and electrical parameters display,
- Generator synchronization,
- Load sharing by kW and kVAR control,
- kW power management with several modes,
- Synchronization with shore,
- kW and kVAR Load/Unload Management,
- Tie breaker control by instructions,
- GENSYS 2.0 MARINE is configured via its front panel or via a PC with CRE Config Software.



GENSYS 2.0 MARINE MODULE



### RDM 2.0 MARINE

Remote display module for all-in-one generator control and paralleling unit

The **RDM2.0 MARINE** works as a remote display and, combine with **GENSYS 2.0 CORE MARINE**, can control a single or a multiple generating sets power plant.

Connected to a **GENSYS 2.0 MARINE**, the **RDM 2.0 MARINE** can be used as an additional remote display. RDM 2.0 screen displays the same data as the GENSYS 2.0. The display shows engine and electrical parameters for intuitive operation.



RDM 2.0 MARINE MODULE



### GENSYS 2.0 CORE MARINE

Core unit for all-in-one generator control and paralleling unit with integrated PLC PMS

The **GENSYS 2.0 CORE MARINE** is an easy-to-use rear-mounted, control and paralleling module which can synchronize up to 32 generators. The modules are designed to work with independant remote display module RDM 2.0. wich are connected through Ethernet.

**GENSYS 2.0 CORE MARINE** is configured with CRE CONFIG software.

- Engine start/stop and protection
- Alternator control and protection
- Mechanical and electrical parameters display
- Generator synchronization
- Load sharing by kW and kVAR control
- kW power management with several mods
- Breaker control and synchronization with shore
- kW and kVAR Load/Unload Management
- Tie breaker control by instructions



GENSYS 2.0 CORE MARINE MODULE



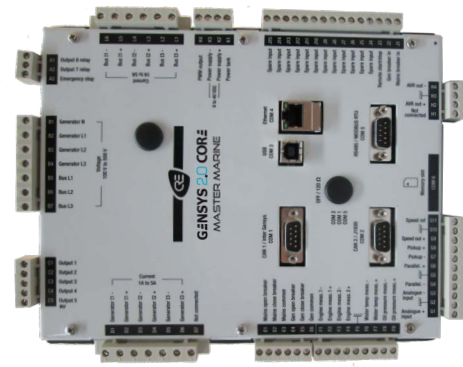
## TIE BREAKER & SHORE CONNECTION MANAGEMENT

### GENSYS 2.0 CORE MASTER MARINE

The GENSYS 2.0 CORE MASTER MARINE is a Marine controller developed to synchronize gensets with shore connection or to synchronize both sides of a power plant split by a bus tie breaker. GENSYS 2.0 CORE MASTER MARINE includes:

- Multi bus tie breaker management
- Shore breaker & shore synchronization management
- Load transfer with shore power
- Three phase shore power failure detection
- Black start & blackout management
- Phase compensation

GENSYS 2.0 CORE MASTER MARINE is a easy to connect additional unit for marine power plant application, or simply to manage a shore connection in automatic. GENSYS 2.0 CORE MASTER MARINE is type approved by major Marine certification organization.



GENSYS 2.0 CORE MASTER MARINE MODULE



### RDM 2.0 MASTER MARINE

The RDM 2.0 MARINE and RDM 2.0 MASTER MARINE both work as a remote display and, combined with the GENSYS 2.0 CORE MARINE or GENSYS 2.0 CORE MASTER MARINE, they offer a control panel and display to manage a complete power plant.

The display shows all live parameters for intuitive operation, and let the customer access the manual operation through the keys.

As RDM2.0 is an independent display, it has no impact on the control system, and can be switched off or disconnected safely. Offers a local display and control on the power plant equipped with CORE modules. Avoid power cable wiring on the front door.

The RDM 2.0 MASTER MARINE may be used for every application where remote display is required: Redundant display for ECR, local control, switchboard remote display.



RDM 2.0 MASTER MARINE MODULE



## COMPLEMENTARY PRODUCTS

### DEMONSTRATION SUITCASE

The DEMO Case is a test and demonstration unit built in a hard shell flight case, it can be used in "demo mode" in order to simulate the sequence of a live genset in operation on a power plant, including synchronization, PID tuning, and power management adjustment; it is a perfect tool to show the product potential to any customer.

In "Normal mode" the DEMO Case will allow user to configure its site application online on a simulation tool, and to test configured sequences and **EasyFlex** programs, if necessary by connecting external power sources.





EXPERT IN GENERATOR SOLUTION



[www.crettechnology.com](http://www.crettechnology.com)

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