# PARALLELING SOLUTIONS

## For generators

Innovation for better control and application



YOUR EXPERT IN GENERATOR SOLUTIONS

# GENSYS COMPACT PRIME

**The GENSYS COMPACT PRIME is a new panel-mounted generator controller fit for standby application**

This new generation of controller is optimized for its ease of use. Installation and configuration for up to 32 generators in island(-parallel mode). GENSYS COMPACT PRIME will benefit from years of GENSYS 2.0 experience.

It includes all necessary functions:
- Up to 32 generators in parallel,
- Manual or automatic engine control,
- kW & kVAR load sharing control,
- Dead busbar management,
- Manual or automatic frequency & phase synchronisation (differential frequency meter + synchroscope available on screen)
- Engine parameters: oil pressure, water temperature, speed, hours run meter

**FEATURES**
- Competitive price & Compact product
- Muti-function graphic display
- 3 isolated ports comm
- J1939 compatibility
- CANopen devices

# RDM 3.0
# GENSYS 2.0 CORE

**Touch screen & colour remote display module for all-in-one genset control and paralleling unit**

RDM 3.0 supplements GENSYS 2.0 CORE, to control a single generating sets power in a power plant. Connected to a GENSYS 2.0 or GENSYS 2.0 LT, RDM 3.0 module can be used as an additional remote display.

RDM 3.0 repeats the display part of GENSYS 2.0. The screen shows the complete application, engine and electrical parameters for intuitive operation.

**FEATURES**
- Color touch screen 15'' (RDM 3.0)
- Multi-function graphic display
- Embedded PLC
- 5 isolated serial ports (GENSYS 2.0 CORE)
- GENSYS inputs/outputs display
- Fully compatible with most speed governors & AVRs
- Remote I/O CANopen management

# DEMONSTRATION
# SUITECASE KIT

**For GENSYS COMPACT PRIME and GENSYS 2.0 for customer product demonstration on application tests.**

This test and demonstration cases (built in flight case) is for our GENSYS COMPACT PRIMET and GENSYS 2.0 products. Inputs/ouputs are wired on switch or lamps. Connections are made with a 230VAC outlet.

# GENSYS 2.0

**GENSYS 2.0 is a control unit designed for generator electrical panels**. It combines all necessary functions:

- Automatic transfer on mains failure
- Engine start/stop and protection
- Alternator control and protection
- Mechanical and electrical parameters display
- Generator synchronization and oad sharing by kW & kVAR control
- Manual and automatic paralleling with mains (frequency, phase, voltage)
- kW power management with several modes
- Permanent paralleling in base load & in peak shaving mode
- Power factor control when paralleling with mains.
- Vector phase compensation for step-up transformer (ex Dyn11)

GENSYS 2.0 configured via its front panel or via a PC with CRE Config software. The unit has analog load sharing inputs and is compatible with all types of analog load sharing modules.

**FEATURES**
- One model for most generator applications
- Fully compatible with most speed governors & AVRs
- Remote I/O CANopen management
- Multi-function graphic display
- No break change over with load transfer
- 5 isolated serial ports
- J1939 communications
- Embedded PLC

**FEATURES**
- One model for most generator applications
- Multi-function graphic display
- Fully compatible with most speed governors & AVRs
- No break change over with several modes
- 5 isolated serial ports & J1939 communications

# GENSYS 2.0 LT

## All-in-one genset control and paralleling unit

GENSYS2.0 LT is a control unit designed for generator electrical panels. It combines all necessary functions when custom instructions are not required:

- Automatic transfer on mains failure
- Engine start/stop and protection
- Alternator control and protection
- Mechanical and electrical parameters display
- Load sharing by kW control & kVAR control
- Manual & automatic paralleling with mains (frequency, phase & voltage)
- kW power management with several modes
- Permanent paralleling in base load & in peak shaving mode
- Power factor control when paralleling with mains.
- Vector phase compensation for step-up transformer (ex Dyn11)

GENSYS2.0 LT is configurable via its front panel or via a PC with CRE Config software.

**FEATURES**
- One model for most mains applications
- Remote I/O CANopen management
- Muti-function graphic display
- 5 isolated serial ports
- 1 or 2 breaker management
- Embedded PLC

# MASTER 2.0

## All-in-one mains paralleling unit

MASTER 2.0 is a power plant controller for mains in parallel with several generators. It includes all necessary functions:

- Mains management
- Three phase mains failure detection
- Electrical protection & parameters display
- Manual and automatic paralleling with mains (frequency, phase & voltage)
- kW power management with several modes
- No break change over with load transfer
- Permanent paralleling in base load & in peak shaving mode
- Power factor control when paralleling with mains
- Vector phase compensation for step-up transformer (ex Dyn11)

# BSD 2.0

**Remote monitoring box**

BSD 2.0 is a remote monitoring and controle box for GENSYS COMPACT PRIME and GENSYS 2.0 application. It communicates via GSM/GPRS/3G using a SIM card - compatible with most of the worldwide network - or over wired Ethernet. Data are saved on a server.

The server offers pages presenting the values on widgets, plotting them for trending, and handling the alarms/faults (filtering). Datas are accessible through customer profiles from any plateform (PC, phone, tablet...).

**FEATURES**
- Cloud technology
- Plug'n play for a fast operation
- Email notification of alarms/faults
- Theft notice (geo-fencing)
- Mimic based on widgets
- Access profiles
- No licence costs

# RDM 2.0 & GENSYS 2.0 CORE

**Remote display module and core unit**
**for all-in-one genset control and paralleling unit**

The kit RDM 2.0 and GENSYS 2.0 CORE has the same properties as GENSYS 2.0 and allows several power plant possibilities. It is an extendable system that can be optimized to your space facility.

The display shows intuitively mechanical and electrical parameters and users can switch screens, set password, change setpoints and view history record.

# CRE CONFIG

**Configuration software**

CRE TECHNOLOGY has developed a new PC software which allows you to connect to multiple GENSYS & UNIGEN Family modules. This user-friendly software allows you to configure and monitor your power plant in real time.

- As a SCADA (monitoring), for configuration and module setting (SYSTEM)

CRE Config software allows you to configure and monitor up to 14 modules.

# EASY PLC

**Program and customize your internal logical sequences**

CRE TECHNOLOGY's Easy PLC is a logic editor which provides graphical interface to create PLC instructions for GENSYS2.0.

Easy PLC simplifies the process of proprietary writing instructions thanks to a user-friendly graphic environment. That includes many sheets in which the user create instructions through «operators».

## YOUR EXPERT IN GENERATOR SOLUTION