

GENSYS COMPACT PRIME

- Competitive price
- Add your own language
- Isolated speed/AVR outputs

All-in-one generator controller & paralleling unit

PART NUMBER

A56Z0

SOFTWARE

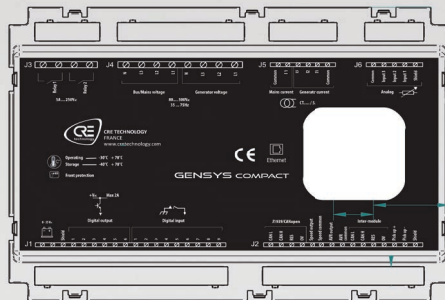
CRE Config

CABLE

A53W1

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.



A SIMPLE PRODUCT WITH ADVANCED FEATURES

GENSYS COMPACT PRIME offers a fully compatible with all speed governors and AVR's, J1939 communication with electronic engines, isolated speed and AVR outputs and 3 isolated communication ports : 2 for CAN bus, 1 for Ethernet

BENEFITS

GENSYS COMPACT PRIME offers a less wiring and components, less engineering & programming, less commissioning and troubleshooting. It also allows up to 32 generators in parallel.

COMPATIBILITY

Thanks to its versatile connectivity the GENSYS COMPACT PRIME is compatible with peripheral devices:

- ECU: CAN bus J1939
- Modbus TCP: SCADA or PLC
- CANopen devices (up to 32 digital inputs/outputs)
- Secondary regulators:
 - Speed governors: $\pm 10 V_{DC}/\text{Pulse}$
 - AVR: $\pm 10 V_{DC}/\text{Pulse}$

APPLICATIONS WITH GENSYS COMPACT

- Diesel generators
- Synchronization and power management module
- 2 to 32 generators parallelized dynamically or statically

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FEATURES	
Control and management <ul style="list-style-type: none"> Manual or automatic engine control, J1939 compatibility (Cummins, Volvo, Scania, MTU, CAT...) Automatic start/stop control depending on load demand, Dead busbar management. kW load sharing control (via CAN bus, up to 32 generators) in isochronous mode kVAR load sharing control (via CAN bus, up to 32 generators) 	Protections <ul style="list-style-type: none"> Generator electrical protections: <F, >F, <U, >U, >I, >In, short circuits (IDMT), >P, <P, >Q, <Q, Synchronization <ul style="list-style-type: none"> Manual or automatic frequency & phase synchronization (differential frequency meter + synchroscope available on screen). Manual or automatic voltage synchronization.
Information display <ul style="list-style-type: none"> Engine parameters: oil pressure, water temperature, speed, hours run meter, Generator electrical parameters: <ul style="list-style-type: none"> Phase-phase voltage (3 phases RMS) Phase-neutral voltage (3 phases RMS) Current (3 phases RMS) Frequency Active power (3 phases + total) Reactive power (3 phases + total) Power factor (3 phases + total) Calculated active energy (kWh) Calculated reactive energy (kVARh) 	<ul style="list-style-type: none"> Mains/bus electrical parameters: <ul style="list-style-type: none"> Phase-phase voltage (3 phases true RMS) Frequency Events <ul style="list-style-type: none"> 2000 alarms/faults are recorded on non volatile memory, Display last 30 alarms/faults, Data logging every 100ms.

CHARACTERISTICS		
Current, voltage and frequency <ul style="list-style-type: none"> DC voltage power supply input: 8...35V_{DC} AC voltage inputs: 100...480V_{AC} 100mA max. Neutral terminal does not need to be connected. AC current inputs: 0...5A, 1VA. AC current overload: 15A during 10s. AC Frequency measurement: 35...75 Hz – 15V_{AC} minimum between phase and neutral. Environment <ul style="list-style-type: none"> Operating temperature: -30°C...+70°C (-22...158°F) Storage temperature: -40°C...+80°C (-40...176°F) Humidity: 5 to 95%. Tropic-proof circuits for operation in humid conditions. 	Inputs, outputs <ul style="list-style-type: none"> 9 digital inputs: NO or NC to ground. 2 relay outputs (breakers): 5A, 230V_{AC} max. 6 solid state outputs: 2A, over-current protected. 3 analog inputs: 0...500 Ω. Speed and frequency control: +/-10V_{DC} isolated output with adjustable span and offset, or +speed/-speed contacts Voltage (AVR) control: +/-10V_{DC} isolated output with adjustable span and offset, or +voltage/-voltage contacts. Magnetic pick up input: 100...10kHz, 2V_{AC} minimum. Ports <ul style="list-style-type: none"> 3 isolated comm ports are available: <ul style="list-style-type: none"> CAN bus for inter module connection CAN bus dedicated to J1939 and I/O extensions Ethernet: PC communication/ Modbus TCP 	Size and weight <ul style="list-style-type: none"> Size: 245x182x40mm (3.6x8.16x1.6in) Panel cut out: 220x160mm (6.3x8.7in) Weight: 0.7kg (1.54lb) Certifications <ul style="list-style-type: none"> European Union Directives: EN 50081-2, EN 50082-2, 73/23EEC EMC: EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, EN55011, EN55022 Front panel: IP65 Rear panel: IP20 Other <ul style="list-style-type: none"> LCD characteristics: 128 x 64 pixels Terminals: blocks Languages: English, Spanish, French, Italian. Other custom languages: downloadable through Ethernet port

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WIRING DIAGRAM

