

**AUTO START  
GENERATOR  
PARALLELING  
CONTROLLER**

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**ENCPTM 9.2**

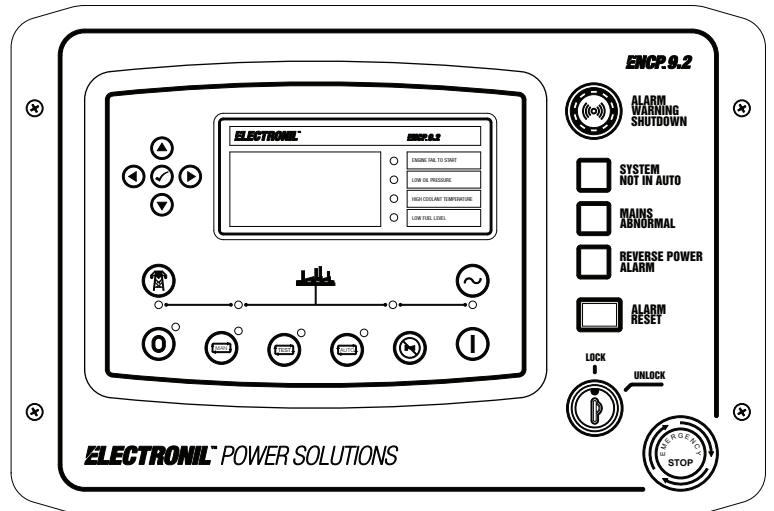


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**DESCRIPTION**

The ENCPTM 9 Series is an easy to use Auto Start Generator Paralleling Controllers Suitable for use in a multi-generator synchronizing and load sharing system.

The ENCPTM 9 Series features a graphical display with an adjustable backlight as well as an advanced engine monitoring system. These features add to the sense of value and dependability that comes with your purchase of ELECTRONIL™ Products.

The ENCPTM 9.2 is an easy to use Synchronizing Auto Mains (Utility) Failure Controller suitable for paralleling single genset (diesel or gas) with the mains (utility) supply.

Designed to synchronize a single genset with a single mains (utility) supply the ENCPTM 9.2 will automatically control the change over from mains (utility) to generator supply or run the generator in parallel with the mains (utility) to provide no break, peak lopping and peak shaving power solutions.

System alarms are annunciated on the LCD screen (multiple language options available), illuminated LED and audible sounder.

Comprehensive communications are also available via RS232, RS485 and Ethernet for remote PC control and monitoring and integration into building management systems

The event log will record 250 events to facilitate easy maintenance, and an extensive number of fixed and flexible monitoring, metering and protection features are included.

Designed to offer increased built in support for active sensors for 0 V to 10 V & 4 mA to 20 mA. Comprehensive communication and system expansion options are available.

Using the PC Configuration Software allows easy alteration of the operational sequences, timers and alarms. With all communication ports capable of being active at the same time, the ENCPTM 9.2 is ideal for a wide variety of demanding load share applications.

**OPERATOR INTERFACE**

- 4-Line backlit LCD text display with 132 x 64 Pixel Ratio.
- LED Status Indicators for Modes Of Operation.
- LED for Genset Ready Indication.
- LED Indicator for Power Switching Device Status.
- Built in synchroscope with synchronizing check.
- Five Buttons Navigation Keypad.
- Deferent Modes of Operation (Stop/Manual/Test/Auto).
- Alarm Silence/Lamp Test Buttons.
- Manual Start Button (Active in Manual Mode Only).
- Load Switching Buttons.
- External Alarm Horn with Audible/Flash Indicators.
- Not in Auto Warning Indicator.
- Mains Abnormal Warning Indicator.
- Reverse Power Alarm Indicator.
- Duty Selected Indicator.
- External Alarm Reset Pushbutton.
- System Lock Key Switch.
- External compact five Amps Battery Charger with three Modes of Operation (Off/Float/ Boost) integrated with fuel pump controls.
- External Latching Mushroom Head Emergency Stop (Twist to Release).

## CONTROLLER SPECIFICATIONS

### KEY FEATURES

- Comprehensive synchronizing & load sharing capabilities
- Built in governor and AVR control
- Base load (kW export) control
- Positive & negative kVAr export control
- Mains (Utility) decoupling protection
- Mains (Utility) failure detection
- Mains (Utility) power (kW, kVAr, kVA & pf) monitoring
- Mains (Utility) de-coupling protection
- Mains (Utility) kW export protection
- Peak lopping & shaving functionality
- 4-Line back-lit LCD text display
- Multiple Display Languages
- Five key menu navigation
- LCD alarm indication
- Heated display option available
- Data logging & trending facility
- Internal PLC editor
- Protections disable feature
- Fully configurable using USB, RS232, RS485 & Ethernet comm.
- Front panel configuration with PIN protection
- Power save mode
- 3 phase generator sensing and protection
- Generator current and power monitoring (kW, kVAr, kVA, pf)
- kW and kVAr overload alarms
- Reverse power alarms
- Over current protection
- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons
- Fuel and start outputs configurable when using CAN
- (8) configurable DC outputs
- (2) configurable volt-free relay outputs
- (4) configurable analogue/digital inputs
- Built in sensors to support 0 V to 10 V & 4 mA to 20 mA
- (12) configurable digital inputs
- Configurable 5 stage dummy load and load shedding outputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Manual and automatic fuel pump control
- Engine run-time scheduler
- Fuel usage monitor and low fuel level alarms
- Simultaneous use of all communication ports
- Remote SCADA monitoring via various software applications
- MODBUS RTU & TCP support with configurable MODBUS pages for integration into building management systems (BMS)
- 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including tier 4 engine support

### KEY LOAD SHARING FEATURES

- Manual voltage/frequency adjustment
- R.O.C.O.F. and vector shift protection
- Mains (Utility) decoupling
- Mains (Utility) decoupling test mode
- Direct governor and AVR control
- Volts and frequency matching
- kW and kVAr load sharing

### KEY BENEFITS

- Can be configured for use as an ENCP™ 9.1
- 132 x 64 pixel ratio display for clarity
- Real-time clock provides accurate event logging
- Ethernet communication, provides built in advanced remote monitoring.
- Can be integrated into building management systems (BMS) and programmable logic control (PLC)
- License-free PC software
- Extended internal PLC editor allows user configurable functions to meet specific application requirements.
- Some digital inputs, analogue inputs and Digital outputs might be used for the operator interface, Consult our Technical Support Team for the Exact Number of Free Inputs and Outputs.

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Materials and specification characteristics may change without notice.

Dimensions and weights are for preliminary purposes only. Please consult ELECTRONIL™ Technical Support Team for detailed installation drawings.

All information in this document is substantially correct at time of printing and may be altered subsequently.

