

AUTO START GENERATOR PARALLELING CONTROLLER

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ENCPTM 9.1

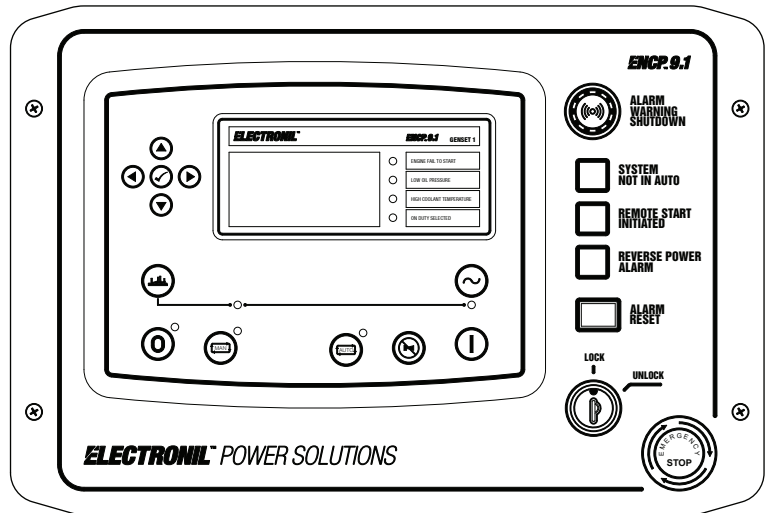


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DESCRIPTION

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 9.1 is an easy to use Auto Start Generator Paralleling Controller suitable for use in a multi-generator synchronizing and load sharing system, designed to synchronize up to 32 generators including electronic and non-electronic engines.

The ENCPTM 9.1 Monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.

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

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 9.1 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/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.
- Remote Start Warning Indicator.
- Reverse Power Alarm Indicator.
- Duty Selected Indicator.
- External Alarm Reset Pushbutton.
- Genset Lock Key Switch.
- Optional external compact five Amps Battery Charger with three Modes of Operation (Off/Float/ Boost) (for Standby Systems) 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 controls
- Base load (kW export) control
- Positive & negative kVAr export control
- Mains (Utility) decoupling protection
- 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 used with CAN engines
- (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 for integration into building management systems (BMS)
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- (3) configurable maintenance alarms
- Compatible with a wide range of CAN engines, including tier 4 support
- True manual breaker control when in CAN mode
- Water in fuel digital input
- Separate ramp up and ramp down rates configurable via PLC
- Configurable CAN message time-outs
- In-built SNMP
- Configurable CAN transmit & receive

KEY LOAD SHARING FEATURES

- Peak lopping/sharing (when used with ENCP™ 9.3 Controller).
- Sequential set start.
- Manual voltage/frequency adjustment.
- R.O.C.O.F. and vector shift protection.
- Generator load demand.
- Automatic hours run balancing.
- Mains (Utility) decoupling.
- Mains (Utility) decoupling test mode.
- Dead bus sensing.
- Bus failure detection.
- Direct Governor and AVR control.
- Volts and frequency matching.
- kW and kVAr load sharing.
- Dead bus synchronizing.

KEY BENEFITS

- Compatible in old synchronizing and load share systems. Contact our Technical Department for further details.
- 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
- Advanced 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.

