

ENCP 7.3

AUTO MAINS FAILURE CONTROL SYSTEM

Discover more at electronil.com/encp_7.3



Image for Illustrations Purposes Only,
Your Actual Product May Vary

Specification Sheet

ELECTRONIL CONTROL PANEL SERIES 7 AMF

ENCP 7.3 Auto Mains Failure Genset Controller



PRODUCT DESCRIPTION

The ENCP 7 Series combines engine, generator and utility controls and monitoring with a single, robust panel for quick access to engine, generator and utility controls, diagnostics, and operating information.

The ENCP 7.3 Automatic Mains Failure Generator Control System is suitable for a wide variety of standby single, diesel or gas, genset applications.

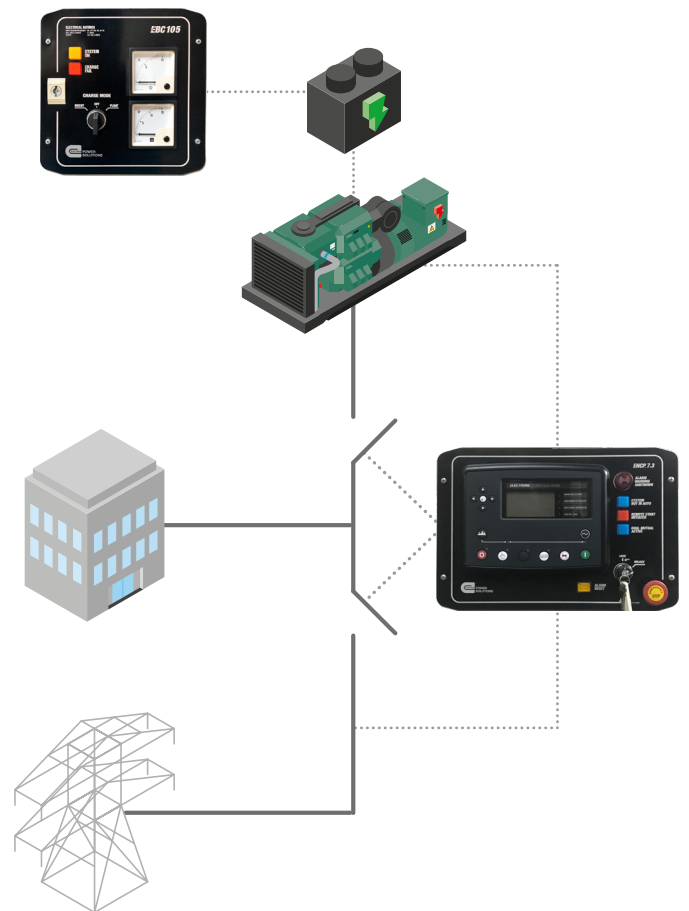
Monitoring an extensive number of engine parameters, the systems will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS text alerts (with external modem).

The ENCP 7.3 will also monitor the mains (utility) supply. The systems include USB, RS232 and RS485 ports as well as dedicated terminals for system expansions.

The ENCP 7.3 is compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offer an extensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements.

The extensive list of features includes enhanced event and performance monitoring, remote communications & PLC functionality. Dual mutual standby is now available on the ENCP 7.3 using RS232 or RS485 communications. This provides for a simpler and more convenient installation with more advanced features such as true engine hours balancing.

APPLICATION OVERVIEW



© 2022 | ELECTRONIL POWER SOLUTIONS. All rights reserved. ELECTRONIL and ELECTRONIL POWER SOLUTIONS are trademarks owned by ELECTRONIL POWER SOLUTIONS. ENCP, ED, EBC and "Engineering the Future, since 1995." are trademarks of ELECTRONIL POWER SOLUTIONS. Other company, product, or service names may be trademarks or service marks of others. Specifications are subject to change without notice.

encp_7.1_technical_specsheets | Issue 9 | rev 3 | Page 1 of 2



PRODUCT KEY FEATURES

- 4-Line back-lit LCD text display.
- Multiple Display Languages.
- Five key menu navigation.
- LCD alarm indication.
- Heated display option available.
- Data logging facility.
- Internal PLC editor.
- Protections disable feature.
- Fully configurable using USB, RS232 & RS485 communication.
- Front panel configuration with PIN protection.
- Power save mode.
- 3 phase generator sensing and protection.
- 3 phase mains (utility) sensing and protection.
- Automatic load transfer control.
- Generator current and power monitoring (kW, kVAr, kVA, pf).
- Mains current and power monitoring (kW, kVAr, kVA, pf).
- kW and kVAr overload and 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.
- 6 configurable DC outputs.
- 2 configurable volt-free relay outputs.
- 6 configurable analogue/digital inputs.
- Support for 0 V to 10 V & 4 mA to 20 mA sensors.
- 8 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 pre-heat and post-heat functions.
- Engine run-time scheduler.
- Engine idle control for starting & stopping.
- Fuel usage monitor and low fuel level alarms.
- Simultaneous use of RS232 and RS485 communication ports.
- True dual mutual standby using RS232 or RS485 for accurate engine hours balancing.
- MODBUS RTU support with configurable MODBUS pages.
- 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 engine support.
- License-free PC software.
- IP65 rating (with supplied gasket) offers increased resistance to water ingress.
- The system can be integrated into building management systems (BMS) using MODBUS RTU.

PRODUCT KEY BENEFITS

- Automatically transfers between mains (utility) and generator for convenience.
- Hour's counter provides accurate information for monitoring and maintenance periods.
- User-friendly set-up and button layout for ease of use.
- Multiple parameters are monitored & displayed simultaneously for full visibility.
- The system can be configured to suit a wide range of applications for user flexibility.
- PLC editor allows user configurable functions to meet user specific application requirements.

OPERATOR INTERFACE

- 4-Line Backlit LCD Text Display.
- LED Status Indicators for Modes of Operation.
- LED for Genset Ready Indication.
- LED Indicator for Loading Status.
- Five Key Menu 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.
- External Warning Indicator for Not in Auto Mode.
- External Warning indicator for Mains Abnormal.
- External Warning indicator for Dual Mutual Status.
- External Alarm Reset Pushbutton.
- System Lock Key Switch.
- External Latching Mushroom Head Emergency Stop (Twist to Release).

OPERATOR INTERFACE DIMENSIONS

