

Automatic Mains Failure Controller for ATS and AMF Gensets

INTRODUCTION

GC315 is suitable for managing the most common single or three phase generator applications (Single Prime Mover and Single Standby gensets). It can monitor three phase (RMS) mains voltages and three phase (RMS) generator voltages and currents, An integrated J1939 Canbus interface enables the controller to be used with electronic engines. A traditional interface can be used for non-electronic engines.

Extensive input and output capability with optional communication interfaces (Plus and Link 5G ready versions), make this an extremely powerful single genset controller. With its user-friendly interface, GC315 provides instant visualisation of measures and alarms coming from the genset.

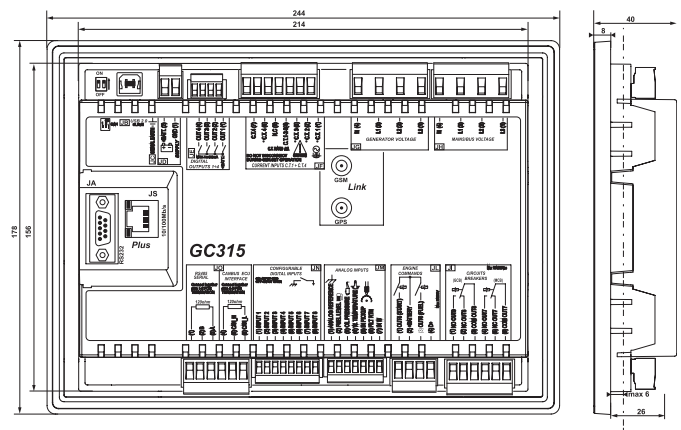
The adjustable parameters of the controller enable both standard and customized tasks to be performed, set directly from the controller's keyboard or by using the free software tool.

A version with built in GPRS/GPS tracking (GC315Link 5G) is particularly suited for mobile or rental applications, where asset tracking and monitoring is required.



MAIN FEATURES

- Remote control systems
- True RMS readings on mains voltages and on generator voltages and currents including neutral
- Active, reactive and apparent power measurements
- Frequency and power measurement on mains input
- Engine speed measurement by frequency, pick-up or W
- 8 programmable inputs and 8 programmable outputs
- Additional current measurement for neutral or ground fault protection (50N + 64)
- Graphic display with self or manual adjustable contrast based on the temperature
- Insulated J1939 and MTU MDEC CAN interface
- USB interface with MODBUS RTU protocol
- Capable of connection to SIMONE software
- Real time clock with rechargeable battery
- Events and data recording
- Free monitoring tool



EMBEDDED FUNCTIONS

- Engine diagnostic codes
- Real time clock with internal rechargeable lithium battery
- Periodical test
- Hours counter for the maintenance schedule
- Start time with crank and rest timers
- Day counter with embedded calendar for the maintenance
- Smart weekly and monthly calendar for selecting specific days of the year
- Configurable automatic daylight saving
- AND/OR logics and configurable TIMERS
- Remote start and stop
- 126 events log
- Fuel pump management for external fuel tank
- Pre-heat and coolant heater management
- Embedded alarm sounder
- Customised front panel with customer branding available
- Programmable via PC or controller's keyboard
- Remote encrypted firmware update
- SMS communication
- NTP, DHCP and DNS
- Load shedding

GC315 COMMUNICATIONS

GC315

- USB port
- Insulated CANBUS J1939 and MTU MDEC Interface

GC315 Plus

- USB port
- Serial port RS232 Modbus RTU
- Insulated serial port RS485 Modbus RTU
- RJ45 port as Ethernet interface Modbus TCP
- Insulated CANBUS J1939 and MTU MDEC Interface

GC315 Link

- USB port
- Serial port RS232 Modbus RTU
- Insulated serial port RS485 Modbus RTU
- Insulated CANBUS J1939 and MTU MDEC Interface
- GPRS Modem
- GPS Antenna
- Motion sensor, accelerometer and gyroscope
- Compliance with CE1588

Options

- REWIND - GPRS/GSM/GPS Device
- DANCE - Ethernet interface

TECHNICAL DATA

- Supply voltage 7-32V DC
- Power consumption typically less than 2W (auto mode, standby, AMF active, LCD lamp saving active)
- Operating frequency: 50Hz or 60Hz
- Voltage measurement range: 30-520V L-L (50Hz) 35-520V L-L (60Hz)
- Recommended operating temperature -30°C to +70°C
- LCD with backlight
- Protection degree IP65 (gasket included)
- Weight 600 grammes
- Overall dimension 244 (W) x 178 (H) x 40 (D) mm
- Panel cut-out 218 (W) x 159 (H) mm
- Specific function for French market EJP EJP-T
- EMC conforms to EN61326-1
- Safety built in conformity to EN61010-1



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