

# Auto Start and Automatic Mains Failure Controller

## INTRODUCTION

Despite its compact dimensions, GC250 includes all the main engine and alternator protections you need, such as oil pressure, coolant temperature, frequency, voltage, current, power and fuel level.

The same controller can be used for electronic engines with CAN interface J1939 and MTU MDEC protocols or used on traditional (non-electronic) engines.

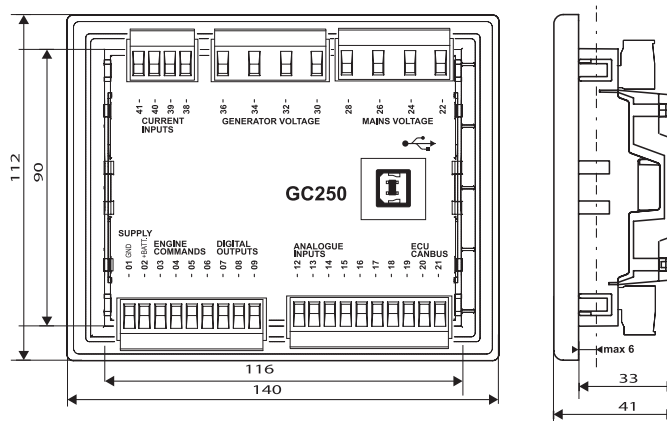
Configuring the inputs, outputs and protections, GC250 can be easily adapted to suit a wide range of applications.

GC250 offers a wide, graphic display, providing icons for alarms/warning and for signalling the status of the engine, controller and data logs.



## MAIN FEATURES

- AUTO-START and AMF (Automatic Mains Failure) controller for single gensets
- Large LCD display with LED backlight and icons
- Compact dimensions
- 3 Phase mains (utility) sensing
- 3 Phase generator sensing
- 3 CT inputs
- True RMS measurements: kW, kVA, kVAr, pf, kWh (phase and total)
- 4 Configurable digital inputs
- 3 Configurable analogue inputs + Configurable Charge alternator D+ input
- Interface for traditional and J1939 engines
- USB serial port for configuration and FW update
- Data recording: 64 events log, 64 (slow) + 42 (fast) periodical recordings
- Remote start and stop
- Embedded alarm sounder
- Real Time Clock with internal rechargeable Lithium battery
- Periodical test
- Free configuration software



## EMBEDDED FUNCTIONS

User-friendly symbols and codes for:

- Minimum/maximum voltage generator
- Minimum/maximum generator frequency
- Over speed
- Minimum fuel level
- High coolant temperature
- Low battery voltage
- Failure engine CANBUS

Protective measures for all phases or for each single phase:

- Engine protection:
  - Fuel reserve
  - Minimum/maximum fuel level
  - Minimum/maximum battery voltage
  - Minimum/maximum oil pressure and temperature
  - Minimum/maximum coolant temperature
  - Maximum power (32)

- Closing failure of mains contactor or genset contactor
- Engine over crank
- Over speed from generator frequency
- Belt breakage
- Operating conditions not reached
- Emergency stop
- Generator protection:
  - Underfrequency (81U)
  - Overfrequency (81O)
  - Undervoltage (27)
  - Overvoltage (59)
  - Time dependent overcurrent (51)
  - Instantaneous overcurrent (50)
  - Phases sequence (47)
  - Currents and voltages unbalance (46/47)
- Mains protection:
  - Minimum/maximum mains voltage (27/59)
  - Minimum/maximum mains frequency (81U/81O)
  - Mains failure

GC250

# Auto Start and Automatic Mains Failure Controller

## TECHNICAL DATA

- Recommended operating temperature -30°C to +70°C
- Storage temperature -30°C to 80°C
- Dimensions: 142 (W) x 112 (H) x 41 (D) mm
- Cut-out dimensions 118 (W) x 92 (H) mm
- Weight 250grammes
- Protection degree IP65 (with complimentary gasket)



**Mecc Alte Kit**  
Bundle Option



**Lower Costs**  
Smart Logistics



**User Friendly**  
Intuitive

### Mecc Alte SPA (HQ)

Via Roma  
20-36051 Creazzo  
Vicenza - ITALY  
T: +39 0444 396111  
E: info@meccalte.it



[www.meccalte.com](http://www.meccalte.com)



The information contained in this document is substantially correct at the time of publication but may be subject to change. Please work with your Mecc Alte contact to confirm details.

**POWER FROM WITHIN**