

DC Auto Start, DC Lighting Tower and Engine Drive Controller

INTRODUCTION

A compact controller used in DC Generator, DC lighting tower or engine drive (pumps, compressors, etc) applications. It monitors the DC output and also provides engine protection and instrumentation. It has dedicated DC lighting tower functions built-in. There is also an integrated speed/load control via CANBus, for DC PMG alternator voltage control.

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

DC250 offers a wide, graphic display, providing icons for alarms/warning and for signalling the status of the engine, controller and data logs.



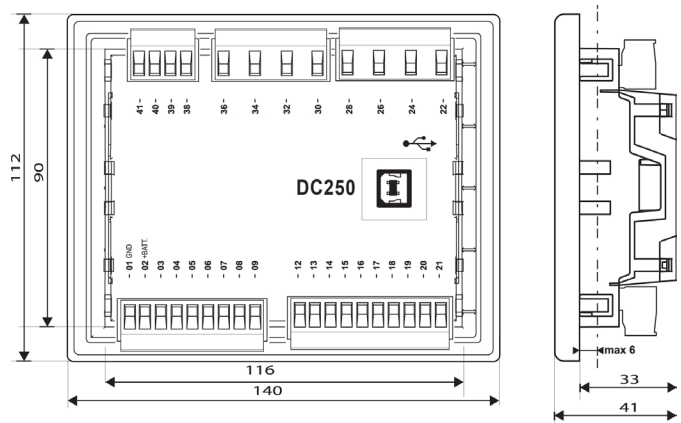
MAIN FEATURES

- DC AUTO-START genset control
- DC lighting tower controller functions
- Engine drive controller for pump, compressor applications with clutch control
- Large LCD display with LED backlight and icons
- Compact dimensions
- DC voltage sensing and protections
- DC current sensing and protections
- Voltage control over CANBUS for PMG speed/load control
- 4 Configurable digital inputs
- 3 Configurable analogue inputs + Configurable Charge alternator D+ input
- 10 Configurable digital outputs
- Interface for traditional MPU and J1939 engines
- USB serial port for configuration and Cyber Secure FW update
- Data recording: 64 events log, 64 (slow) + 42 (fast) periodical recordings
- RS485 communications port
- 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 DC voltage generator
- Under/Over speed
- Minimum fuel level/Critical fuel level
- Low and high coolant temperature Warning/Shutdown
- Low/high battery voltage
- Failure engine CANBUS
- Engine protection
- Low oil pressure Warning/Shutdown
- Tier 4 Final/Euro Stage V monitoring and control



- Lighting tower lamp controls (upto 8 lamps)
- Lighting tower mast control
- Lighting tower auto run control
- Engine over crank
- Over speed from generator frequency
- Belt breakage
- Operating conditions not reached
- Emergency stop
- Generator protection:
 - Undervoltage Warning and Shutdown
 - Overvoltage Warning and Shutdown
 - Lighting tower lamp failure detection
 - Staged lamp control - delay
 - Low battery start function

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

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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.



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