

ACGEN 2.0



Auto start controller with remote start/stop

- Remote start and stop
- Manual start and stop
- Graphic remote display
- Programmable inputs / outputs
- Generator protections
- Communication ports :
RS232/RS485 Modbus/CAN J1939
- CRE Monitor configuration software



The ACGEN 2.0 is a complete auto start controller with remote start/stop for a single generating set operating in standby mode.

The ACGEN 2.0 controller is used for automatic and manual control of generators.

The test feature allows you to set various daily or weekly self tests of the generator.

The module also handles OpEx feature for the control of fuel costs.

FEATURES

- Back-lit LCD graphic display with multiple information pages
- Help button for on-board instructions
- Different password access
- 57 configurable alarms and protections
- High accuracy TRMS measurement
- Date and time (real time clock with battery)
- 3 languages available on board (English, French, Italian)
- 250 engine history events log and data-logger
- System statistics: engine, alternator
- Modem communication via GSM – GPRS
- Fast and easy setup
- Fully programmable by keyboard
- Engine speed measurement with magnetic pick-up / Alternator voltage
- Modbus communication

MEASUREMENTS

Generator measurements

- V_{AC} : (L1/L2) - (L2/L3) - (L3/L1)
- V_{AC} : L1N-L2N-L3N
- kVA: L1-L2-L3-Total
- kW: L1-L2-L3-Total
- kVAR: L1-L2-L3-Total
- kWh
- $\cos \varphi$: L1-L2-L3
- Frequency (Hz)
- Fuel level
- Oil pressure
- Engine temperature
- Autonomy hours
- Hours left to service
- Run hours

Load measurements

- Currents: L1-L2-L3

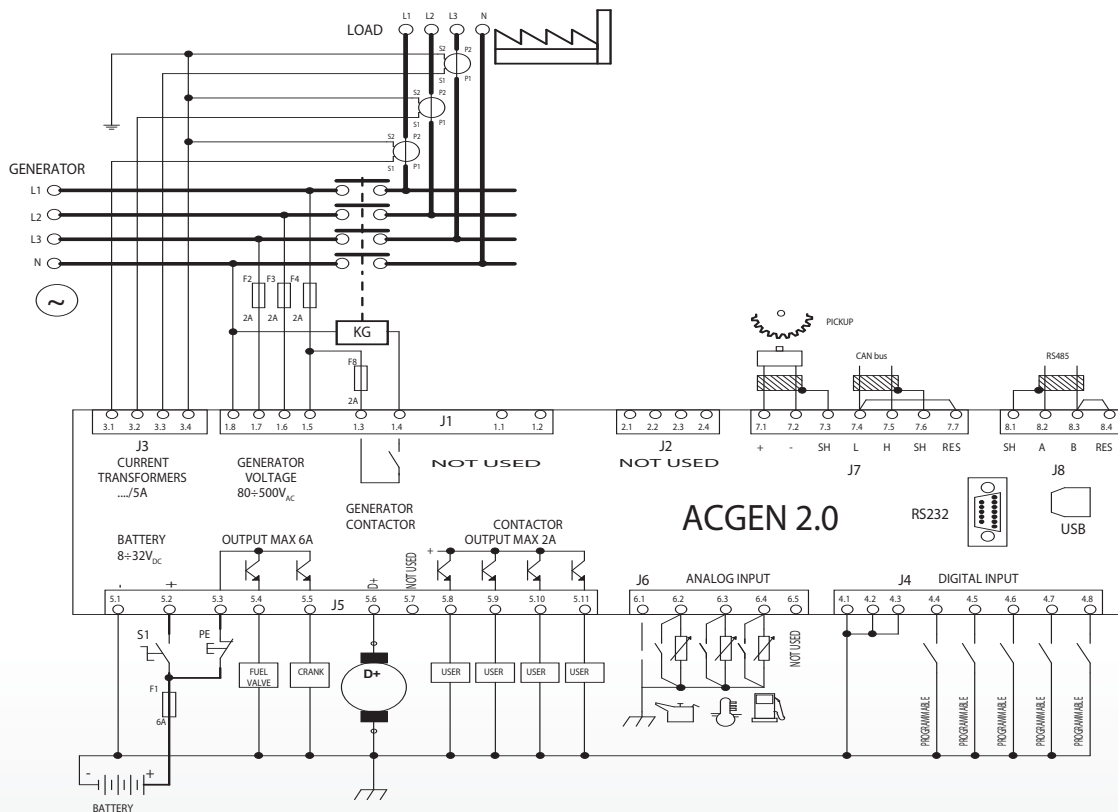
Alarms and events

- Date and time
- Information page
- Events log
- Active alarms page

PROTECTIONS

- Low oil level
- Low coolant level
- Ground protection alarm
- High fuel consumption
- Stop phase
- Start phase
- Battery maintenance
- Stop failure
- Fuel low leakage
- Fuel high leakage
- Unexpected consumption
- Service
- Refueling timeout
- Remote start
- Remote stop
- Warranty expired
- Charger alternator failure
- Test failed
- High temperature alarm (digital)
- Low fuel alarm (digital)
- Low oil pressure alarm (digital)

- Battery charger alarm
- Emergency button
- Feedback generator breaker
- System locked
- User alarm 1
- User alarm 2
- User alarm 3
- Faulty start
- Mechanical fault
- Low frequency generator
- High frequency generator
- Low voltage generator
- High voltage generator
- Wrong phase sequence generator
- Current overload
- Current short-circuit
- High temperature prealarm
- High temperature alarm (analog)
- Low fuel prealarm
- Low fuel alarm (analog)
- Low oil pressure prealarm
- Low oil pressure alarm (analog)
- High battery voltage
- Low battery voltage
- High RPM value
- Low RPM value
- Low autonomy



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CHARACTERISTICS

- DC range: 8 to 32 V_{DC}
- AC supply range: 50 to 500 V_{AC}
- Typical standby current: 100 mA_{DC}
- Maximum operating current: 350 mA_{DC}
- Generator breaker relay output: 8 A / 250V
- DC outputs: 6A / 28V and 2A/28V
- Charge excitation current: 54mA @ 12V_{DC}

Ports

- 1 RS232 port for Modbus RTU communication
- 1 RS485 port for Modbus RTU communication
- 1 USB port for computer communication
- 1 CAN bus J1939 for engine communication (Scania EMS, Volvo EMS, Volvo EPC, Perkins, John Deere, Deutz, Iveco, Cummins, MTU)

Environment

- Operating temp.: -30°C + 70°C
- Maximum humidity: 95% non-condensing.
- Front panel protection: IP65

Dimensions and weight

- Dimensions: 245x182x40mm
- Panel cut-out dimensions: 220x160 mm minimum.
- Weight: 750 g

Homologation

- EN61000-6-(2), (4) - EN60086-2-2
- IEC61000-4-(2), (3), (4), (5), (6)
- IEC60086-2- (1), (2), (6) + IEC60086-2-30 - CISPR 16-1

PART NUMBER

A63Z1

ASSOCIATED PRODUCTS

TC GEN 2.0

IC GEN 2.0

