

# 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

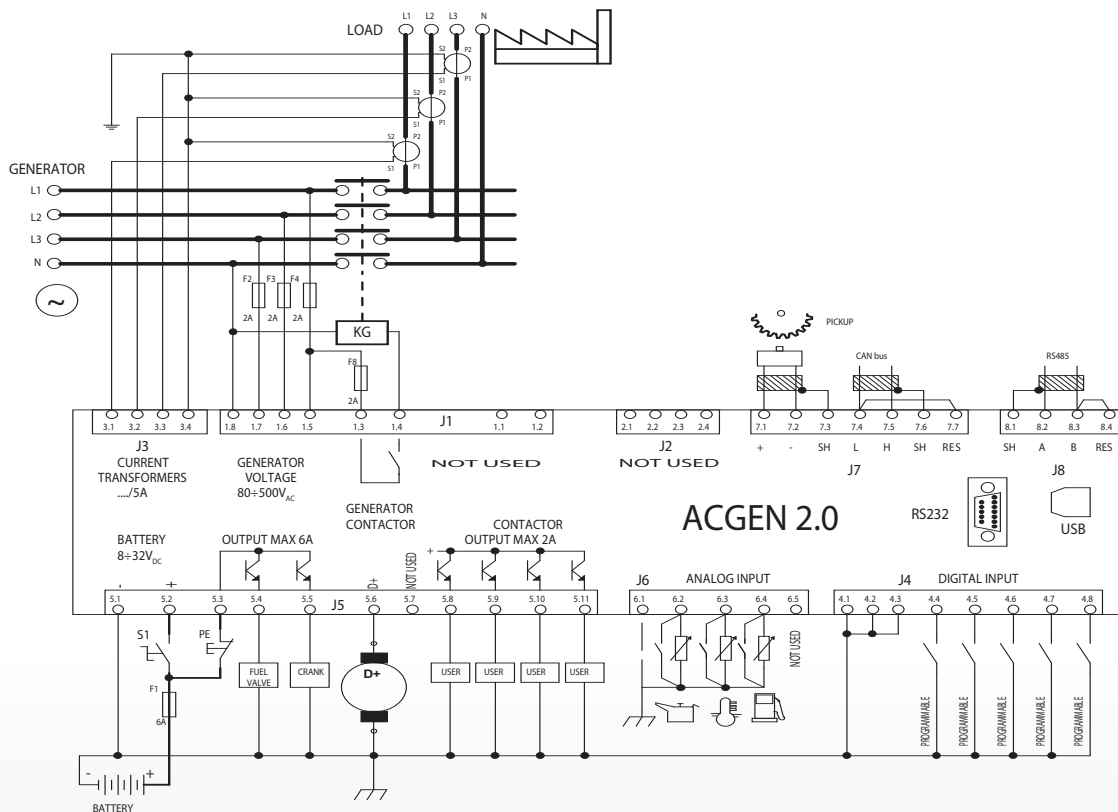
## Alarms and events

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

## 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

