

easYgen-3200

Synchronising Control Panel

The easYgen-3200 offers industry leading power management and control

The easYgen-3200 is a versatile control unit, incorporating all the features of the easYgen-2500 including enhanced load sharing, and is adaptable to every application. Typical applications include co-generation, standby, AMF, peak shaving, import / export or distributed generation. This control panel is suitable for synchronising up to 32 generator sets running in island mode, mains parallel and multiple unit mains parallel operations.

easYgen-3200



Benefits

- Capable of generator set-to-set, set-to-mains and multiple set-to-mains synchronisation for up to 32 generator sets
- Enhanced system flexibility meets demanding customer specifications
- User friendly interface via 320 x 240 pixel graphical interactive 5.7" LCD
- Easy system navigation via programmable soft keys
- Multilingual capability: English, Chinese, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Turkish and Finnish
- Multiple communication protocols for communication with Engine Control Units (ECUs), external I/O boards, PLCs and modems

Features

- Power and reactive power load sharing up to 32 units including load-dependent start / stop
- Engine start / stop and generator set measuring and protection
- Automatic base loading
- Running hours balancing
- Import / export control
- Dead bus closure negotiation
- ECU monitoring and alarm management as well as remote start / stop and control commands
- PLC-like programming with Logics Manager
- 300-entry, time and date stamp log
- Operating hours / start / maintenance counters
- Configurable trip levels / delays / alarm classes
- Field configurable application settings
- Multi-level password protection
- RP3000 remote display panel available for management and control from adjacent plant room

Protection

Generator Set

- Over / under voltage and frequency
- Dead bus detection
- Overload
- Unbalanced load
- Reverse / reduced power
- Time over current
- Instantaneous over current
- Measured ground fault
- Phase rotation
- Power factor

Engine

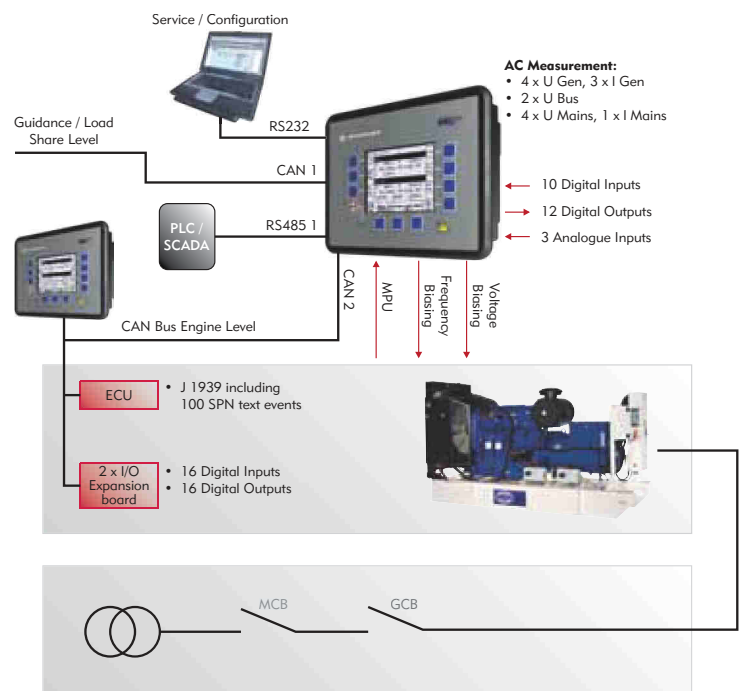
- Over / under speed
- Battery over / under voltage
- Auxiliary excitation
- Speed / frequency mismatch

Mains

- Over / under voltage and frequency
- Phase shift
- Rotation field

Inputs / Outputs (I/O)

- Two separate sets of 3-phase true r.m.s. voltage measuring inputs for the generator set and mains, and 2-phase busbar voltage
- 3-phase true r.m.s. generator set current / power
- 1-phase true r.m.s. current input freely configurable
- 1 speed input (magnetic / switching)
- 10 configurable discrete alarm inputs



- Up to 12 programmable discrete outputs
- Three configurable analogue inputs
- Two configurable analogue outputs
- Two CAN bus communication networks (up to 32 participants, isolated)
- Two serial ports supporting Modbus RTU Protocol, RS-485 and RS-232 (isolated)