



www.FGWilson.com



easYgen Range



FG Wilson has manufacturing facilities in the following locations:

Northern Ireland • Brazil • China • India • USA

With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network. To contact your local Sales Office please visit the FG Wilson website at www.FGWilson.com

The next generation of synchronising control panels.

The easYgen-2500 and easYgen-3200 offer industry leading power management and control.

easYgen-2500

The easYgen-2500 is a generator set-to-set controller for paralleling and load sharing applications of up to 16 generator sets. The unit is compact and easy to use whilst providing all essential protection, control and monitoring features. A special feature of the easYgen-2500 is the enhanced load sharing system. This provides advanced generator load dependent start / stop functionality with automatic generator set selection to ensure optimal system efficiency.

easYgen-2500

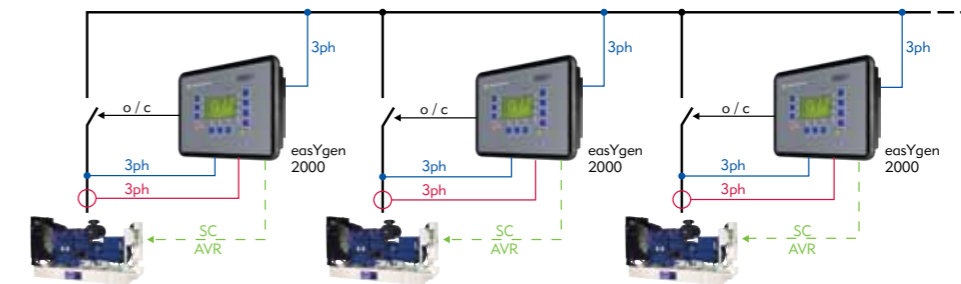
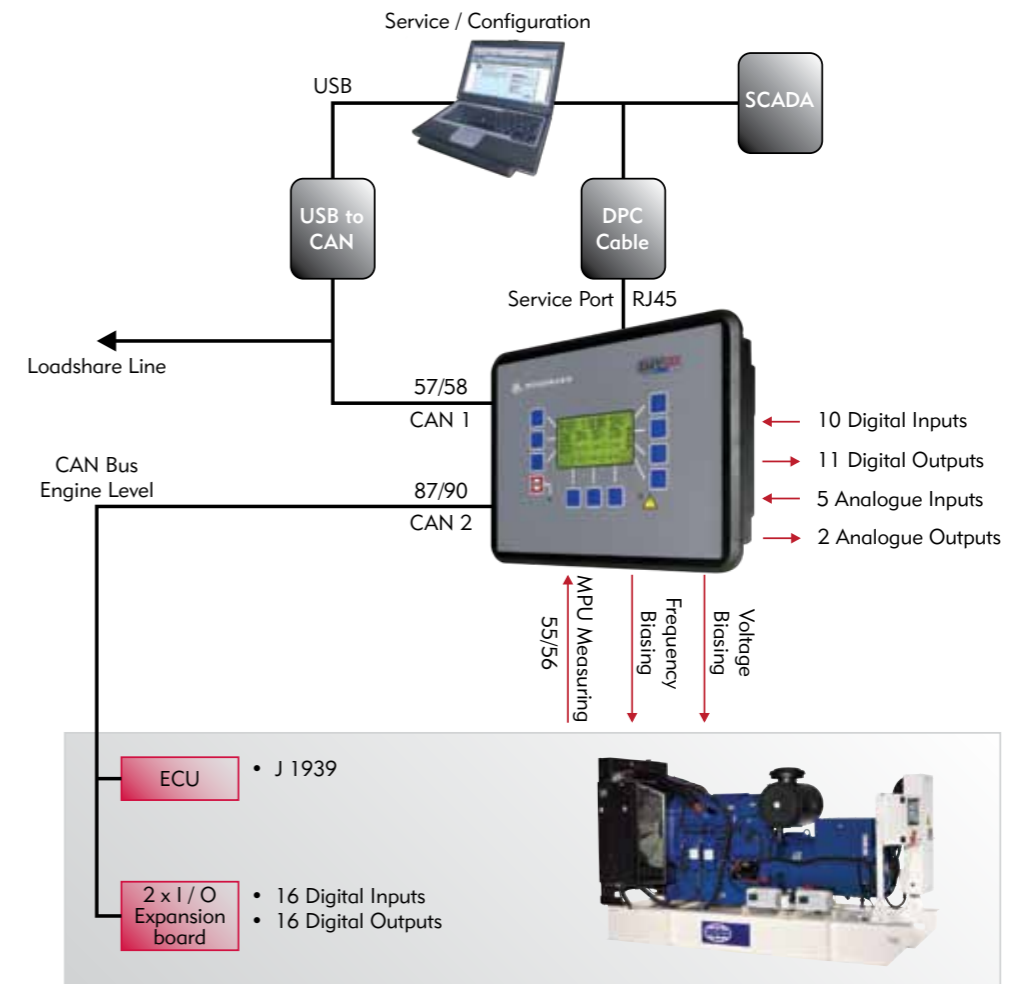


Benefits

- Capable of **set-to-set synchronising for up to 16 generator sets**
- User friendly interface
- Easy system navigation via programmable soft keys
- Multiple communication protocols for communication with Engine Control Units (ECUs), external I/O boards, PLCs and modems
- Multilingual capability: English, Chinese, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish and Turkish
- Capable of working with all common industrial interfaces

Features

- Power and reactive power load sharing up to 16 units including load-dependent start / stop
- Engine start / stop and generator set measuring and protection
- Running hours balancing
- Breaker control: synchronization, open-close control, only-open control, breaker monitoring
- Dead bus closure negotiation
- 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



Inputs / Outputs (I/O)

- 3 phase true r.m.s. generator set current / power
- 1 speed input (magnetic / switching)
- 10 configurable discrete alarm inputs
- Five configurable analogue inputs
- Four configurable analogue outputs (+/- 10 V, +/- 20 mA, PWM; configurable)
- Two CAN bus interface (load share, Toolkit)
- 11 Relay Outputs Isolated
- RS485 Modbus interface
- Service Port (RS232 – Woodward DPC cable required)

Protection

Generator Set

- Over / under voltage
- Over / under frequency
- Dead bus detection
- Overload
- Reverse / reduced power
- Time over current
- Instantaneous over current
- Inverse time over current
- Phase rotation
- Unbalanced load
- Power factor

Engine

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

easYgen-3200

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, stand-by, 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

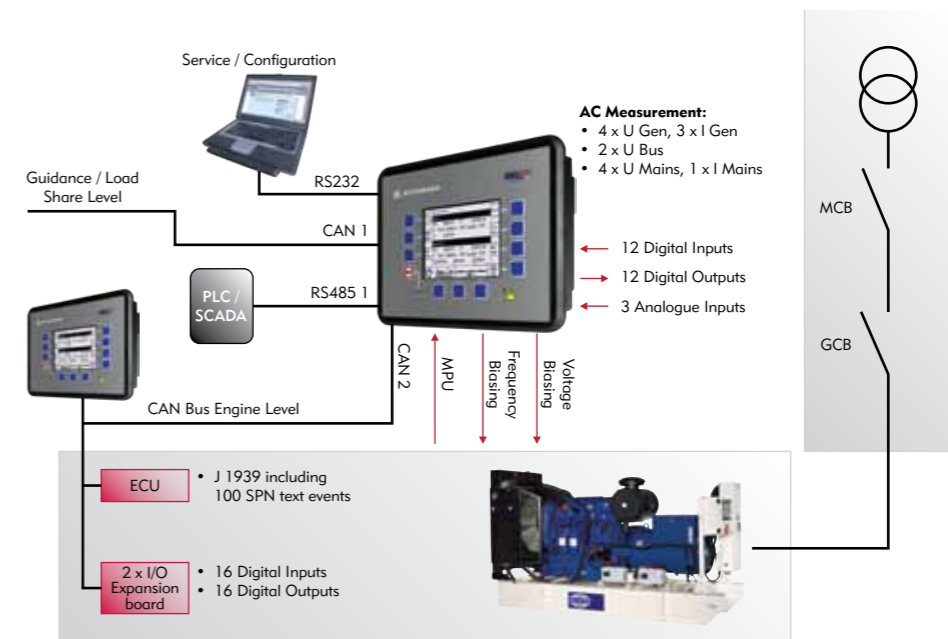


Benefits

- 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 and Turkish
- 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
- Peak shaving
- Import / export control
- Dead bus closure negotiation
- Emergency power / backup power generation
- ECU monitoring and alarm management as well as remote start / stop and control commands
- Advanced logics manager
- 300-entry, time and date stamp log
- Warm up control via timer or coolant temperature
- 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



Inputs / Outputs (I/O)

The easYgen-3200 provides the following I/Os:

- 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 inputs
- 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)

Protection

Generator Set

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

Aviva Stadium, Dublin



"The easYgen-3200 control panels provided the enhanced system management features required for supplementing utility demand for Ireland's newest major sporting venue, the Aviva Stadium. With a capacity of 51,000 seated spectators, the Aviva Stadium has a normal operating power requirement of 2.5 MVA which it receives from the local power utility. Using the easYgen-3200 control panel management system, the power requirement can be supplemented with 6.8 MVA of generator set power during large stadium events."

Roddy Guiney, Spokesman for the Aviva Stadium

easYgen control panel options

NetBiter® FGW200

Remote management for new and existing generator set installations

With software designed exclusively for FG Wilson, the FGW200 offers new opportunities for remote access over the internet and mobile phone. The NetBiter unit is suitable for use in new and existing installations due to control panel Auto Detect software which offers plug and play capability.



Remote management that takes customer service to a new level by:

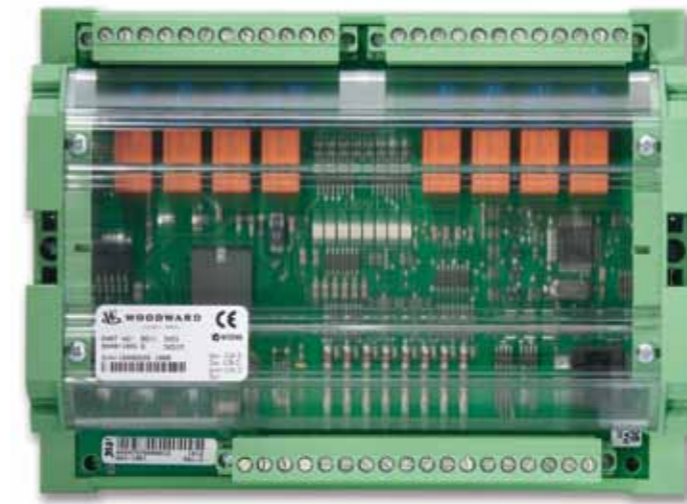
- Reducing the need to travel to remote sites for maintenance purposes
- Minimising downtime with instant information about equipment health
- Theft prevention through generator set tracking
- Fuel level monitoring to optimise fuel inventory
- Start up logging to help prevent generator set misuse
- Allowing multiple project and device management through NetBiter.net

Features

- New Auto Detect software allows retrofit to PowerWizard 2.0, PowerWizard 2.1, easYgen-2500, easYgen-3200 control panels and ATI transfer panels
- Built in web interface for data monitoring
- Built in alarm manager for SMS, email and SNMP
- Built in data logger of historical trends
- GSM/GPRS modem included
- All software included, easily upgraded remotely and provided with no licensing cost

I/O Expansion Module

Connection to and from external system devices enabling more flexibility to meet your specific power requirements.



Features

- 8 configurable discrete alarm inputs
- 8 configurable relay outputs
- Connection to easYgen control panel via CAN bus
- Input and output configuration via onboard easYgen relay manager
- Remote control of output relays via CAN bus
- The I/O Expansion Module can be used with other manufacturer's controls. Consult Woodward product manual 37135 for information regarding the address assignments of the CAN bus interface