

Total control at the touch of a button!

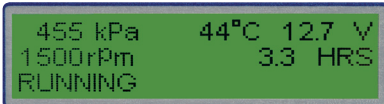
FG Wilson's new range of digital control panels gives you the industry leading control solution for all your power needs.

The PowerWizard 2.0 control system offers a feature packed panel for monitoring and communicating with your generating set. Using cutting edge technology we've integrated meters, gauges and dials into one display, giving you quick and easy access to controls, metering, protection device settings and diagnostic information.

Why should you choose an FG Wilson PowerWizard 2.0 series control panel?

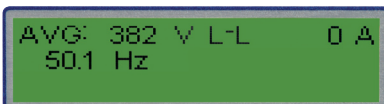
- ▶ Common look and feel from 10 to 2000 kVA for ease of operation and service
- ▶ 10.5-32V DC providing a single module to cover whole product range
- ▶ Simple menu layout for ease of navigation and monitoring
- ▶ Two display languages, (Customer language and Technician English*) to aid service and commissioning
- ▶ 20 event log to aid fault finding
- ▶ Robust electronics package for industry leading reliability
- ▶ Configurable using front key pad/laptop
- ▶ Shortcut keys for immediate access to engine or AC metering
- ▶ Integrated metering and controls reducing components and wiring, aiding reliability and ease of service
- ▶ Common engine wiring system allows simple upgrading between levels of panel
- ▶ Can be serviced using standard EST tool
- ▶ Simple communication cable connection to annunciator (5 core)

*See languages available overleaf.



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455 kPa    44°C 12.7 V
1500rPm    3.3 HRS
RUNNING
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Typical view of panel display after pressing the 'Engine' overview shortcut key



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AVG: 382 V L-L    0 A
50.1 Hz
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Typical view of panel display after pressing the 'AC' overview shortcut key



PowerWizard 2.0



Control System



Standard Features

▶ Panel construction and finish

Components installed in a heavy duty sheet steel enclosure
Phosphate chemical pre-coating of steel provides corrosion resistant surface
Polyester composite powder topcoat forms high gloss and extremely durable finish
Lockable-hinged panel door provides easy component access

▶ Mounting

Mounted to generating set baseframe on robust steel stand
Vibration isolated from generating set

▶ Instrumentation

LCD Display with adjustable contrast and backlight with auto power off

AC Metering:

- Volts 3-phase (L-L & L-N)
- Amps (per phase & average)
- Frequency
- kW (total & per phase)
- kVA (total & per phase)
- kVAr (total & per phase)
- Power Factor (overall & per phase)
- kW hours
- kVAr hours

DC Metering:

- Battery Volts
- Hours Run
- Engine Jacket Water Temperature (in °C or °F)
- Lube Oil Pressure (in psi, kPa or bar)
- Engine Speed (RPM)
- Crank Attempt counter
- Start counter

▶ Protection

Fail to Start
Low Oil Pressure
High Engine Temperature
Underspeed, Overspeed
Loss of Engine Speed Detection

Low/High Battery Voltage
Battery Charger Failure (if fitted)
Under Volts, Over Volts
Under Frequency, Over Frequency
Overcurrent
4 spare fault channels*

*Three spare fault channels available on models P730P1-P1100E1 (high exhaust temperature alarm fitted as standard)
Two spare fault channels available on models P1250 - P2200E (high exhaust temperature alarm & air shut-off valve fitted as standard)
20 Event fault log (name of each event, time & engine hours at first occurrence of event, time & engine hours at latest occurrence of event, number of occurrences of event)

▶ Controls

2 LED status indicators (1 red shutdown, 1 amber warning)
Run key, Auto key, and Stop key with LED indicators
Lamp test key
Alarm Acknowledge key
Menu navigation keys
Engine and AC metering shortcut keys
Control module keys with tactile feedback
Lock down emergency stop push button

▶ Other Features

Real time clock
Service Interval Counter
CAN 1 data link – J1939 for communicating with electronic engine control modules
CAN 2 accessory data link - for additional modules remote annunciator, digital input/output module
Modbus communications on 2 wire half duplex RS485 connection for remote customer monitoring

▶ Languages

LED displays available in Arabic, Chinese, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Icelandic, Italian, Norwegian, Portuguese, Russian, Spanish and Swedish

Options

▶ Instrumentation

Remote annunciator
Battery trickle charge ammeter
Audible alarm

▶ Controls

Remote monitoring and control
Battery charger
Engine coolant heater controls
Volt free contacts for: Common Alarm
Genset Running
Lockdown emergency stop button with security key
Volts adjust potentiometer
Speed adjust potentiometer

▶ Spare shutdown/alarm channel can include:

Earth leakage protection
Low fuel level
Low coolant level
High lube oil temperature
Low coolant temperature
High fuel level
Overload via alarm switch
Earth fault protection
Low gas pressure
High gas pressure

Note: All options are not available on all genset models



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

