

Total control at the touch of a button!

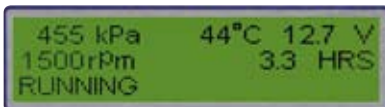
FG Wilson's new range of digital control panels gives you the industry leading control solution for all your power needs.

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?

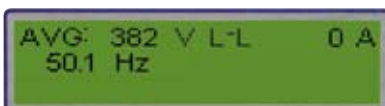
- ▶ Common look and feel from 10 to 2000 kVA for ease of operation and service
- ▶ 10.5-32V DC providing a single module to cover whole product range
- ▶ Simple menu layout for ease of navigation and monitoring
- ▶ Two display languages, (Customer language and Technician English*) to aid service and 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.



455 kPa 44°C 12.7 V
1500rPm 3.3 HRS
RUNNING

Typical view of panel display after pressing the 'Engine' overview shortcut key



AVG: 382 V L-L 0 A
50.1 Hz

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
- 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

