

## Total control at the touch of a button!

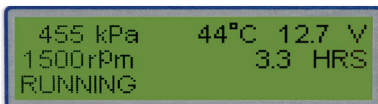
FG Wilson's new range of digital control panels gives you the industry leading control solution for all your power needs.

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?

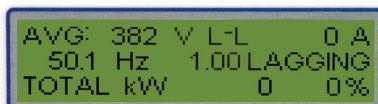
- ▶ Common look and feel from 10 to 2000kVA for ease of operation and service
- ▶ 10.5-32V DC providing a single module to cover whole product range
- ▶ Simple menu layout for ease of navigation and monitoring
- ▶ Two display languages, (Customer language and Technician English\*) to aid service and 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  1.00 LAGGING
TOTAL kW    0    0%
```

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

\*See languages available overleaf.



## 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 (Sept. '05), 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**

