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FG Wilson Control Systems

FG Wilson Control Systems

Putting You in Control

Whatever your power requirements, FG Wilson can provide a control system to suit your needs. Our generator set experts design and validate FG Wilson control systems to optimise your generator set performance and put you in control.

All FG Wilson control panels are compact, versatile and easy to use. Our comprehensive range includes key-start analogue control panels for straightforward functionality and reliability; digital control panels suitable for use in mains failure applications, providing advanced metering, protection and diagnostics; and the next generation of advanced synchronising panels with integrated load management capability, suitable for synchronising up to 32 generator sets.

Our range of load transfer panels are designed to enhance the operation of your standby generator set in conjunction with our electronic control panels, to provide automatic control of your standby generator set in the event of a power outage, 24 hours a day, 365 days a year.

For more challenging power requirements, our Power Solutions Team is dedicated to the design and production of bespoke control systems to meet your individual needs, regardless of complexity.



PowerWizard

Digital Control Panels

PowerWizard – Providing safe control of your generator set

The FG Wilson PowerWizard range of digital control panels, combine straightforward menu navigation with advanced metering and protection technology. They are used in automatic mains failure applications in conjunction with transfer panels.

Our PowerWizard range allows you to monitor and control your generator set with ease, whilst ensuring your unit operates within safe parameters and provides important diagnostic information when needed.

PowerWizard 1.0 and 2.0



PowerWizard 1.0 is standard on
350 - 2200 kVA range

Benefits

- Robust electronics package for industry leading reliability
- Single menu layout for ease of navigation and monitoring with shortcut keys for immediate access to engine or AC metering
- 10.5-32V DC providing a single module to cover the whole FG Wilson generator set range
- Comprehensive range of standard features and options to ensure the most appropriate configuration for your needs
- Serviced using standard EST

Features

- True RMS Voltage Sensing
- CAN 1 Data Link for communication to electronic engines, CAN 2 (2.0 only) Accessory Data Link for additional modules
- 20 unique events log configuration including first, last and number of occurrences and real time clock
- Engine and AC Monitoring
- Two display languages (Customer Language & Technician Language)
- Up to 4 spare fault channels
- Configurable sender input
- Run/Auto/Stop keys with LED indicators
- Integrated metering and controls reducing components and wiring, aiding reliability and ease of service
- MODBUS connection to building management system via RS485 (2.0 only)
- Power metering (2.0 only)

PowerWizard

Digital Control Panels

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PowerWizard 1.1, 1.1+ and 2.1



**PowerWizard 1.1 is standard on 6.8 - 22 kVA
CAL enclosed range and 100 - 275 kVA range**

Benefits

- Robust electronics package for industry leading reliability
- Single menu layout for ease of navigation and monitoring with shortcut keys for immediate access to engine or AC metering
- 10.5-32V DC providing a single module to cover the whole FG Wilson generator set range
- Comprehensive range of standard features and options to ensure the most appropriate configuration for your needs
- Serviced using standard EST

Features

- True RMS Voltage Sensing
- CAN 1 Data Link for communication to electronic engines, CAN 2 (2.1 only) Accessory Data Link for additional modules
- 40 unique events log configuration including first, last and number of occurrences and real time clock
- Engine and AC Monitoring
- Two display languages (Customer Language & Technician Language)
- Up to 5 spare fault channels
- Configurable sender input
- Dedicated Key to reset all faults and main menu short cut key
- Run/Auto/Stop keys with LED indicators
- Integrated metering and controls reducing components and wiring, aiding reliability and ease of service
- Generator set voltage and over/under frequency protection (1.1+ and 2.1 only)
- MODBUS connection to building management system via RS485 (2.1 only)
- Power metering (2.1 only)

PowerWizard

Remote Monitoring Options

Remote Monitoring

The PowerWizard Annunciator is a 16-channel display unit for remotely monitoring the status of FG Wilson generator sets at a distance of up to 240 metres. The Annunciator communicates via the CAN 2 data link which comes as standard on generator sets fitted with PowerWizard 2.0 or 2.1 Control Panels.

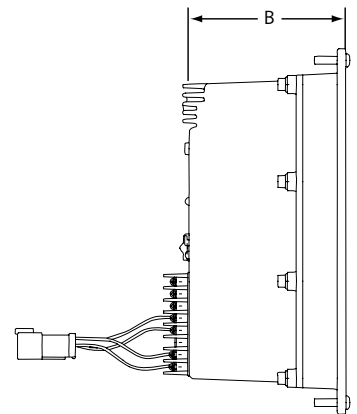
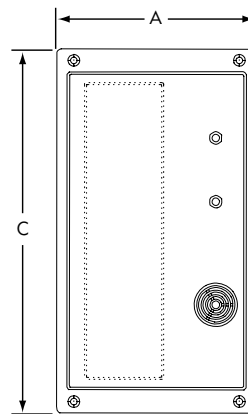
Each of the 16 channels on the Annunciator has two LEDs to display status and alarm signals directly from the PowerWizard 2.0 or 2.1 Control Panel on the generator set.

The pre-set channels linked to each LED display can be individually configured using the Electronic Service Tool (EST). This allows Operators to monitor different generator set status and alarm signals to suit site-specific requirements.

In addition to the LED display, the Annunciator includes an audible alarm, an alarm acknowledge pushbutton and a lamp test pushbutton.



PW Panel	Option Codes	Annunciator Dimensions		
		A mm (in)	B mm (in)	C mm (in)
PW 2.0	MCM 9	158 (6.22)	130 (5.12)	288 (11.34)
PW 2.1	ANN16	158 (6.22)	130 (5.12)	288 (11.34)



PowerWizard

Remote Monitoring and Control Options

Remote Monitoring and Control

The FG Wilson Communications Interface Module and Software Package allows operators to monitor and control all generator set functions from a virtual control panel on their PC.

Depending on the operator's distance from the generator set and the type of connection available to link to the generator set, two options are offered:

- For distances up to 1,000 metres, where it is convenient to have a hard-wired connection, a generator set can be monitored using the Communications Interface Module and Software Package on the operator's PC or laptop.
- Alternatively, when laying a hard-wired connection is not convenient, the same monitoring and control functionality is available, but communication between the operator's PC or laptop and the Control Panel is made through a modem and the telephone network. Depending on the operator's distance from the generator

set and the type of connection available to link to the generator set, two options are offered:

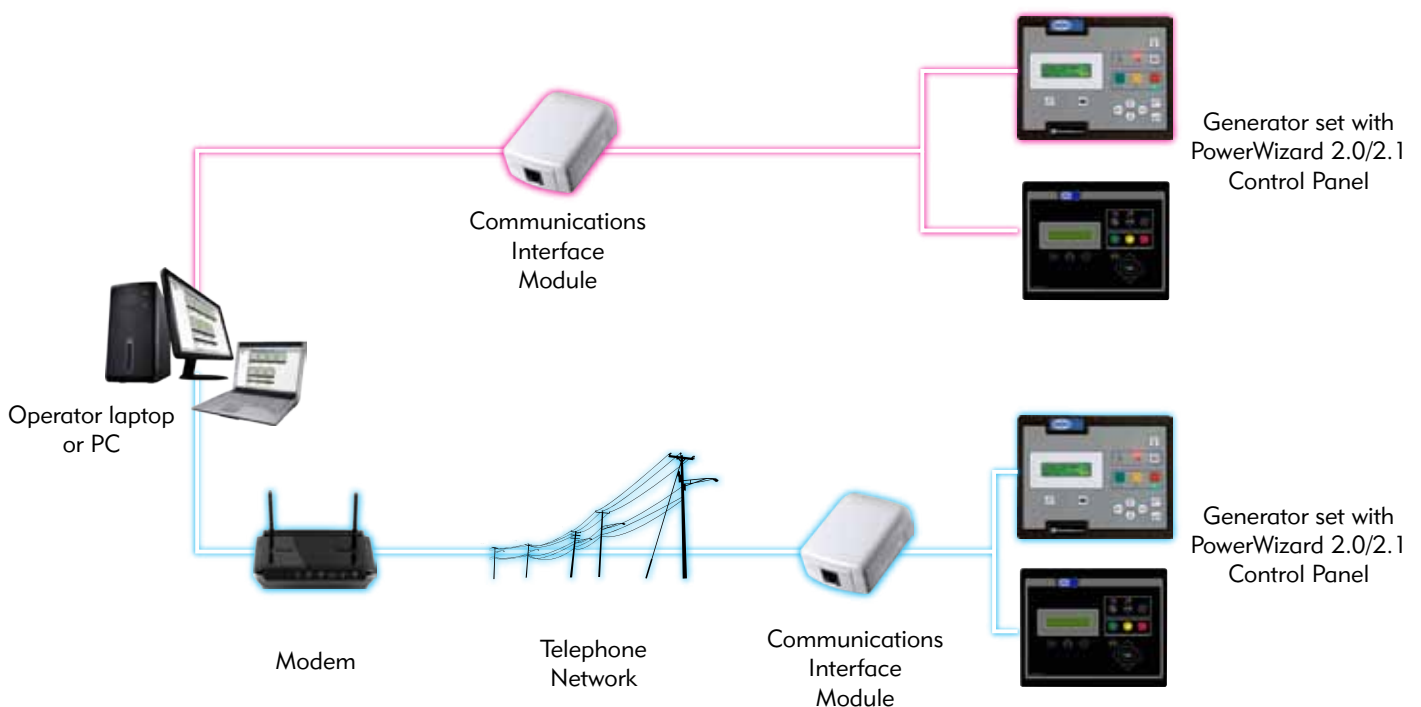
Connection Via	Panel Option Codes	
	PW2.0	PW2.1
Hand-wired Connection (Up to 1,000m)	MCM 7	REM 1
Telephone Network	MCM 8*	REM 2*

* Modem to link the operator's PC or laptop with the telephone network is not included.

Note: PC or laptop is not included in any of the above options.

Additional remote monitoring and control options, via the internet, GSM and GPRS are available with PowerWizard 2.0 and 2.1 Control Panels. Please contact your local FG Wilson Dealer for further information.

Using Hard-wired Connection



Using Telephone Network