

# FG Wilson FG100 INSTALLATION MANUAL

## ENTERING THE PROGRAMMING

To enter the program mode, press together **▲ PGM ▼** buttons for 5 seconds.

When the program mode is entered, below password entry screen will be displayed.



A 4 digit password must be entered using **▼, ▲, PGM** and **I** buttons.

The **▼, ▲** buttons modify the value of the current digit. The **PGM** and **I** buttons navigate between digits.

The password level-1 is factory set to '1234' and the password level-2 is factory set to '9876'.

If a wrong password is entered, the unit will still allow access to the program parameters, but in read-only mode. If password "0000" is entered, only EVENT LOG file will be available.

## NAVIGATING BETWEEN MENUS

Navigation between different groups are made with **▼** and **▲** buttons. Selected group is shown in reverse video (blue on white).

In order to enter inside a group, please press **PGM** button. In order to exit from the group to the main list please press **I** button.



Navigation inside a group is made also with **▼** and **▲** buttons. A list of available parameters will be displayed. Selected parameter is shown in reverse video (blue on white). In order display/change the value of this parameter, please press **PGM** button.

Parameter value may be increased and decreased with **▼** and **▲** buttons. If these keys are hold pressed, the program value will be increased/decreased by steps of 10. When a program parameter is modified, it is automatically saved in memory.

If **PGM** button is pressed, next parameter will be displayed. If **I** button is pressed, then the list of parameters in this group will be displayed.



## MODIFYING PARAMETER VALUE



## PROGRAMMING MODE EXIT













To exit the program mode press STOP button. If no button is pressed during 2 minutes the program mode will be cancelled automatically.



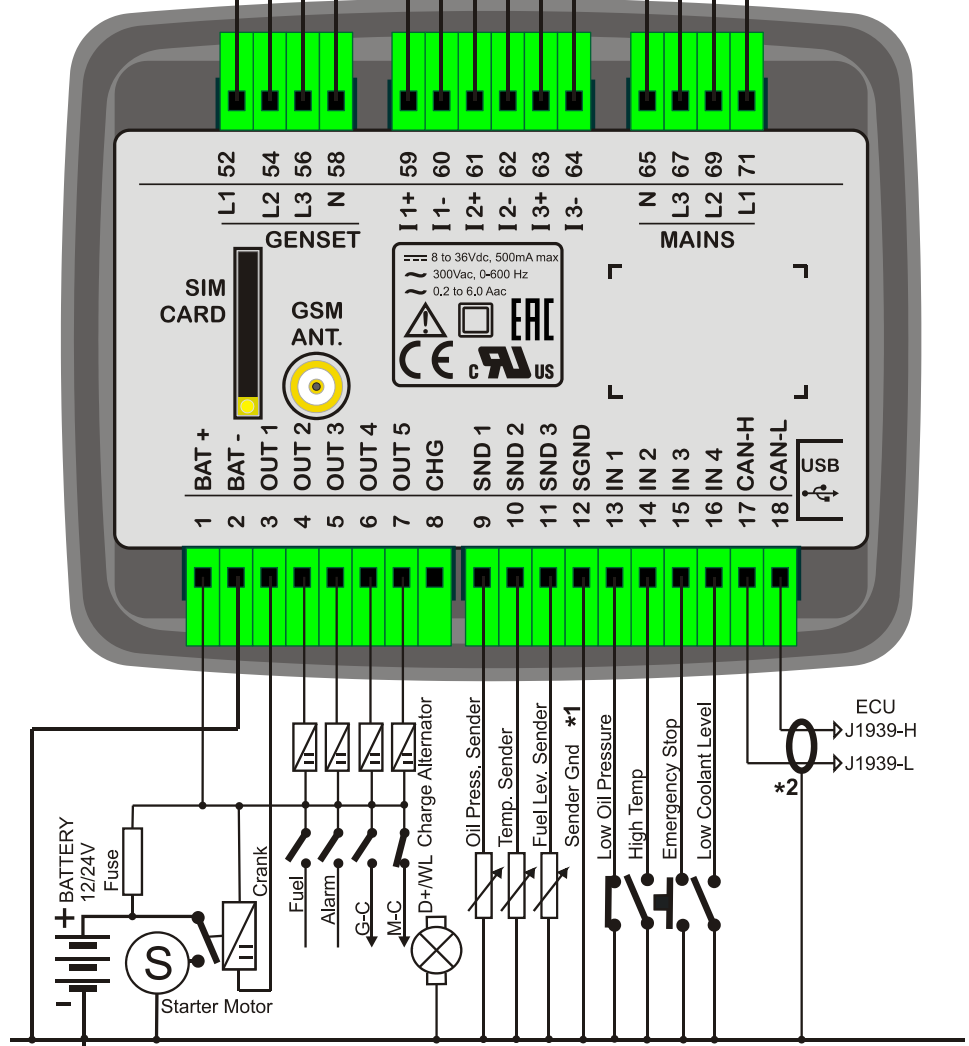
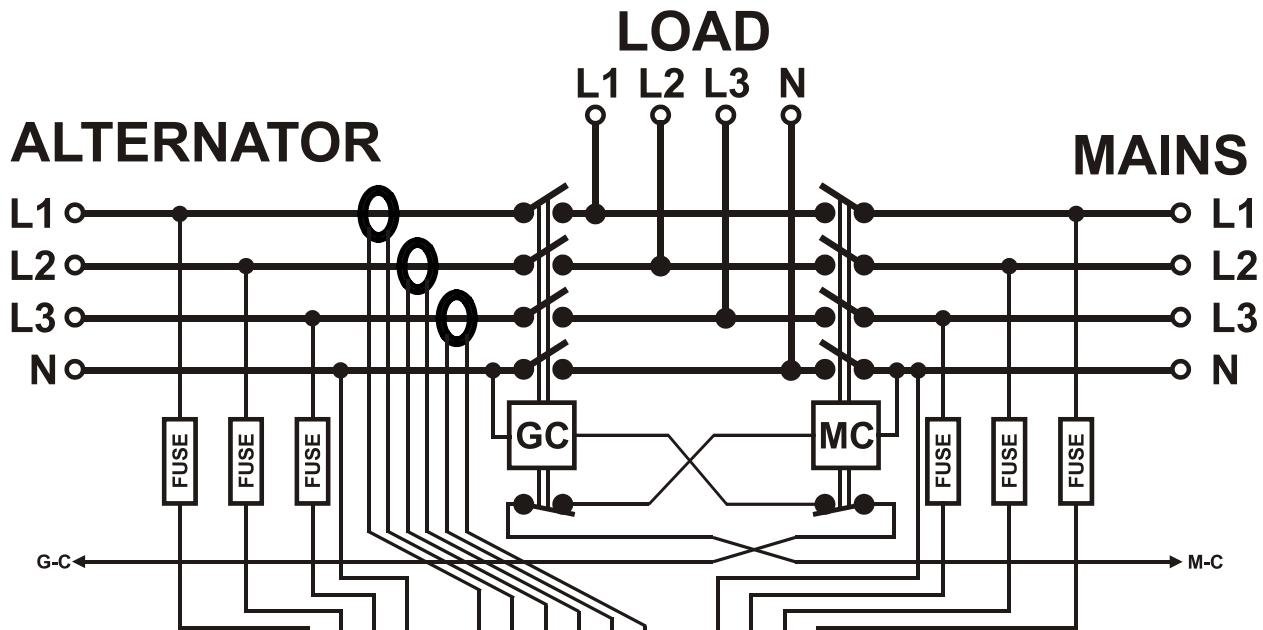
## MOST ESSENTIAL PROGRAM PARAMETERS

| GROUP                    | PARAMETER DEFINITION                 | FACTORY SETTING |
|--------------------------|--------------------------------------|-----------------|
| Controller Configuration | Language Selection                   | 0 ( ENGLISH )   |
|                          | Unit Functionality                   | AMF             |
|                          | Engine Control Only                  | 0               |
|                          | CT Location                          | GEN             |
| Electrical Parameters    | Current Transformer Primary          | 500             |
|                          | Nominal Voltage                      | 230             |
|                          | Nominal Frequency                    | 50              |
|                          | Mains Voltage Low Limit              | V-20%           |
|                          | Mains Voltage High Limit             | V+20%           |
|                          | Mains Voltage Fail Timer             | 1sec            |
|                          | Mains Frequency Low Limit            | F-10%           |
|                          | Mains Frequency High Limit           | F+10%           |
|                          | Mains Frequency Fail Timer           | 1sec            |
|                          | Genset Low Voltage Warning Limit     | V-15%           |
|                          | Genset Low Voltage Shutdown Limit    | V-20%           |
|                          | Genset High Voltage Warning Limit    | V+15%           |
|                          | Genset High Voltage Shutdown Limit   | V+20%           |
|                          | Genset Voltage Fail Timer            | 1sec            |
|                          | Genset Low Frequency Warning Limit   | F-15%           |
|                          | Genset Low Frequency Shutdown Limit  | F-20%           |
|                          | Genset High Frequency Warning Limit  | F+15%           |
|                          | Genset High Frequency Shutdown Limit | F+20%           |
|                          | Genset Frequency Fail Timer          | 1sec            |
|                          | Low Battery Voltage Warning Limit    | 12              |
|                          | Low Battery Voltage Shutdown Limit   | 9               |
|                          | High Battery Voltage Warning Limit   | 29              |
|                          | High Battery Voltage Shutdown Limit  | 30              |
|                          | Battery Voltage Fail Timer           | 3sec            |
| Genset Overcurrent Limit | 0A                                   |                 |
| Genset Overload Limit    | 0kw                                  |                 |
| Engine Parameters        | Nominal RPM                          | 1500            |
|                          | Engine Start Delay                   | 0               |
|                          | Preheat Timer                        | 0               |
|                          | Crank Timer                          | 6               |
|                          | Engine Heating Timer                 | 4               |
|                          | Stop Solenoid Timer                  | 10              |
|                          | Cooldown Timer                       | 120sec          |
|                          | Number of Starts                     | 3               |
|                          | Crank Cut Voltage                    | 100V            |
|                          | Crank Cut Frequency                  | 10Hz            |
|                          | Crank Cut Rpm                        | 500rpm          |
|                          | Crank Cut Charge Voltage             | 6V              |

## PUSHBUTTON FUNCTIONS

| BUTTON  | FUNCTION  |
|---|---|
|    | Selects RUN mode. The genset runs off-load.<br>If held pressed for 5 seconds, selects TEST mode. In TEST mode the genset runs and takes the load. |
|    | Selects AUTO mode. The genset runs when necessary and takes the load.   |
|    | Selects OFF mode. The genset stops.   |
|    | Selects next display screen in the same display group.<br>Resets the ALARM RELAY.   |
|   | Selects next screen group.<br>LAMP TEST when held pressed.  |
| <br><b>PGM</b><br>  | When held pressed for 5 seconds, enters PROGRAMMING mode.   |
| <br><br> | Makes factory reset. Please review chapter RESETTING TO FACTORY DEFAULTS for more details.  |
| <br>  | When held pressed for 5 seconds, resets service request counters. Please review chapter SERVICE REQUEST ALARM for more details.                   |

# TYPICAL CONNECTIONS



Battery Negative must be grounded

- \*1 Connect to engine body, close to the senders.
- \*2 Ground from one end only.