

## FRONT PANEL CONFIGURATION EDITOR (Factory default settings are shown in bold italicised text)

| Section        | Parameter as shown on display       | Values                                                                                                                      |
|----------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Input settings | Oil Pressure Pre Alarm              | 0 bar -4bar (1.17bar)                                                                                                       |
|                | Oil Pressure Shutdown               | 0 bar -4bar (1.03bar)                                                                                                       |
|                | High Coolant Temp Pre Alarm         | 80°C -140°C (115°C)                                                                                                         |
|                | High Coolant Temp Shutdown          | 80°C -140°C (120°C)                                                                                                         |
|                | Low Coolant Temp Alarm              | 67°C -137°C (disabled)                                                                                                      |
|                | Low Fuel Level Alarm                | 0%-100% (disabled)                                                                                                          |
| Timers         | Mains Transient Delay               | 0-10s (2s)                                                                                                                  |
|                | Gen Transient Delay                 | 0 -10s (0s)                                                                                                                 |
|                | Start Delay                         | 0 -60m (5s)                                                                                                                 |
|                | Pre Heat Time                       | 0 -60m (0s)                                                                                                                 |
|                | Crank Time                          | 0 -60s (10s)                                                                                                                |
|                | Crank Rest Time                     | 0-60s (10s)                                                                                                                 |
|                | Safety On Delay                     | 0-30s (10s)                                                                                                                 |
|                | Overspeed Overshoot Delay           | 0-10s (0s)                                                                                                                  |
|                | Warm Up Time                        | 0-60m (0s)                                                                                                                  |
|                | Transfer Delay                      | 0-10s (0.75s)                                                                                                               |
|                | Return Delay                        | 0 -60m (30s)                                                                                                                |
|                | Cooling Run Time                    | 0-60m (60s)                                                                                                                 |
|                | Fail To Stop Delay                  | 0-30s (30s)                                                                                                                 |
|                | Low Battery Delay                   | 0-10m (1m)                                                                                                                  |
|                | High Battery Delay                  | 0-10m (1m)                                                                                                                  |
|                | Gen Reverse Power Delay             | 0-30s (2s)                                                                                                                  |
| Mains          | Mains Under Voltage Alarm           | 50V-360V ph-N (184V)                                                                                                        |
|                | Mains Over Voltage Alarm            | 50V-360V ph-N (277V)                                                                                                        |
|                | Mains Under Frequency Alarm         | 0Hz -75Hz (45Hz)                                                                                                            |
|                | Mains Over Frequency Alarm          | 0Hz -75Hz (55Hz)                                                                                                            |
| Generator      | Generator Under Voltage Shutdown    | 50V-360V ph-N (184V)                                                                                                        |
|                | Generator Under Voltage Pre Alarm   | 50V-360V ph-N (196V)                                                                                                        |
|                | Generator Nominal Voltage           | 52V-330V(230V)                                                                                                              |
|                | Generator Over Voltage Pre Alarm    | 50V-360V ph-N (265V)                                                                                                        |
|                | Generator Over Voltage Shutdown     | 50V-360V ph-N (277V)                                                                                                        |
|                | Generator Under Frequency Shutdown  | 0Hz -75Hz (40Hz)                                                                                                            |
|                | Generator Under Frequency Pre Alarm | 0Hz -75Hz (42Hz)                                                                                                            |
|                | Generator Nominal Frequency         | 0Hz - 74Hz (50Hz)                                                                                                           |
|                | Generator Over Frequency Pre Alarm  | 0 -75Hz (55Hz)                                                                                                              |
|                | Generator Over Frequency Shutdown   | 0 -75Hz (57Hz)                                                                                                              |
|                | Generator Over Current Trip         | 100-200% full load rating (100%)                                                                                            |
|                | Generator Short Circuit Trip        | 50%-300% full load rating (200%)                                                                                            |
|                | Generator Reverse Power Trip        | 0%-200% full load rating (35kW)                                                                                             |
|                | Earth Fault Trip                    | 1%-100% full load rating (10%)                                                                                              |
| Engine         | Engine Underspeed Shutdown          | 0-6000RPM (disabled)                                                                                                        |
|                | Engine Underspeed Pre Alarm         | 0-6000RPM (disabled)                                                                                                        |
|                | Engine Overspeed Pre Alarm          | 0-6000RPM (disabled)                                                                                                        |
|                | Engine Overspeed Shutdown           | 0-6000RPM (disabled)                                                                                                        |
|                | Overspeed Overshoot                 | 0-10 (0%)                                                                                                                   |
|                | Plant Battery Under Volt Alarm      | 0-24V (10V)                                                                                                                 |
|                | Plant Battery Over Volt Alarm       | 0-24V (30V)                                                                                                                 |
|                | Charge Alternator Failure Alarm     | 0-24V (6V)                                                                                                                  |
| AC System      | Alternative Frequency               | Enable, Disable                                                                                                             |
|                | Alternative Voltage                 | Enable, Disable                                                                                                             |
|                | AC System                           | 3 Phase 4 wire<br>1 Phase 2 wire<br>3 phase 3 wire<br>2 phase 3 wire L1 & L2<br>3 phase 4 wire ED<br>2 phase 3 wire L1 & L3 |
|                | Generator Full Load Current         | 0-6000A (500A)                                                                                                              |
|                | Droop                               | Enable, Disable                                                                                                             |
|                | Droop %                             | 0-5% (only when CAN is enabled)                                                                                             |
| Display        | Contrast                            | <input type="checkbox"/>   <input type="checkbox"/>                                                                         |
| Clock          | Date and Time                       | dd mmm yyyy hh:mm:ss                                                                                                        |
| Misc.          | Run Priority                        | 1-16 (1)                                                                                                                    |
|                | Auto Scroll Time                    | 0-10s (2.0s)                                                                                                                |
| CT             | Generator CT Primary Rating         | 5-6000A (600A)                                                                                                              |
|                | Generator CT Secondary Rating       | 1A, 5A                                                                                                                      |
|                | Mains CT Primary Rating             | 5-6000A (600A)                                                                                                              |
|                | Mains CT Secondary Rating           | 1A, 5A                                                                                                                      |
| Power          | Full kW Rating                      | 5-6000kW (345kW)                                                                                                            |
|                | Full kVAr Rating                    | 5-6000 (258kVAr)                                                                                                            |
|                | Load Ramp Rate                      | 0.1-100% (5.0%)                                                                                                             |
|                | Load Parallel Power                 | 0.1-100% (172kW)                                                                                                            |
|                | Load Power Factor                   | 0.02-100% (1.0pFf 0kVar 0%)                                                                                                 |



DEEP SEA ELECTRONICS

053-009  
ISSUE4

## 5520 INSTALLATION INSTRUCTIONS

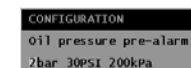
### ACCESSING THE FRONT PANEL CONFIGURATION EDITOR

- Press the Stop/Reset  and Info  buttons simultaneously
- If a module security PIN has been set, the PIN number request is then shown (The first \* is flashing) :
- Press + or – buttons to adjust it to the correct value. Press ✓ when the first digit is correctly entered. Repeat this process for the other digits of the PIN number.
- When ✓ is pressed after editing the final PIN digit, the PIN is checked for validity. If the number is not correct, the editor is automatically exited. To retry you must re-enter the editor as described above.
- If the PIN has been successfully entered (or the module PIN has not been enabled). CONFIGURATION is displayed :



## EDITING A PARAMETER

- Enter the editor as described above.
- Press the + and – buttons to cycle to the parameter you wish to change.
- Press the ✓ button to enter edit mode. When in edit mode (indicated by the flashing parameter)
- Pressing the + and – buttons will adjust the parameter to the desired value.
- For *date and time* editing only: press  to select between day, month, year, hours and minutes.
- Press the ✓ button to 'save' the value. The value will stop flashing to confirm that it has been saved.
- To select another value to edit, press the + button. Continuing to press the + and – buttons will cycle through the adjustable parameters as shown overleaf.
- To exit the front panel configuration editor at any time, press the Stop/Reset  button. Ensure you have saved any changes you have made by pressing the ✓ button first.



**▲NOTE:-** When the editor is visible, it is automatically exited after 5 minutes of inactivity to ensure security.

**▲NOTE:-** The PIN number is automatically reset when the editor is exited (manually or automatically) to ensure security.

**▲NOTE:-** More comprehensive module configuration is possible using the 5xxx series PC configuration software in conjunction with the P810 PC interface. Please contact us for further details.

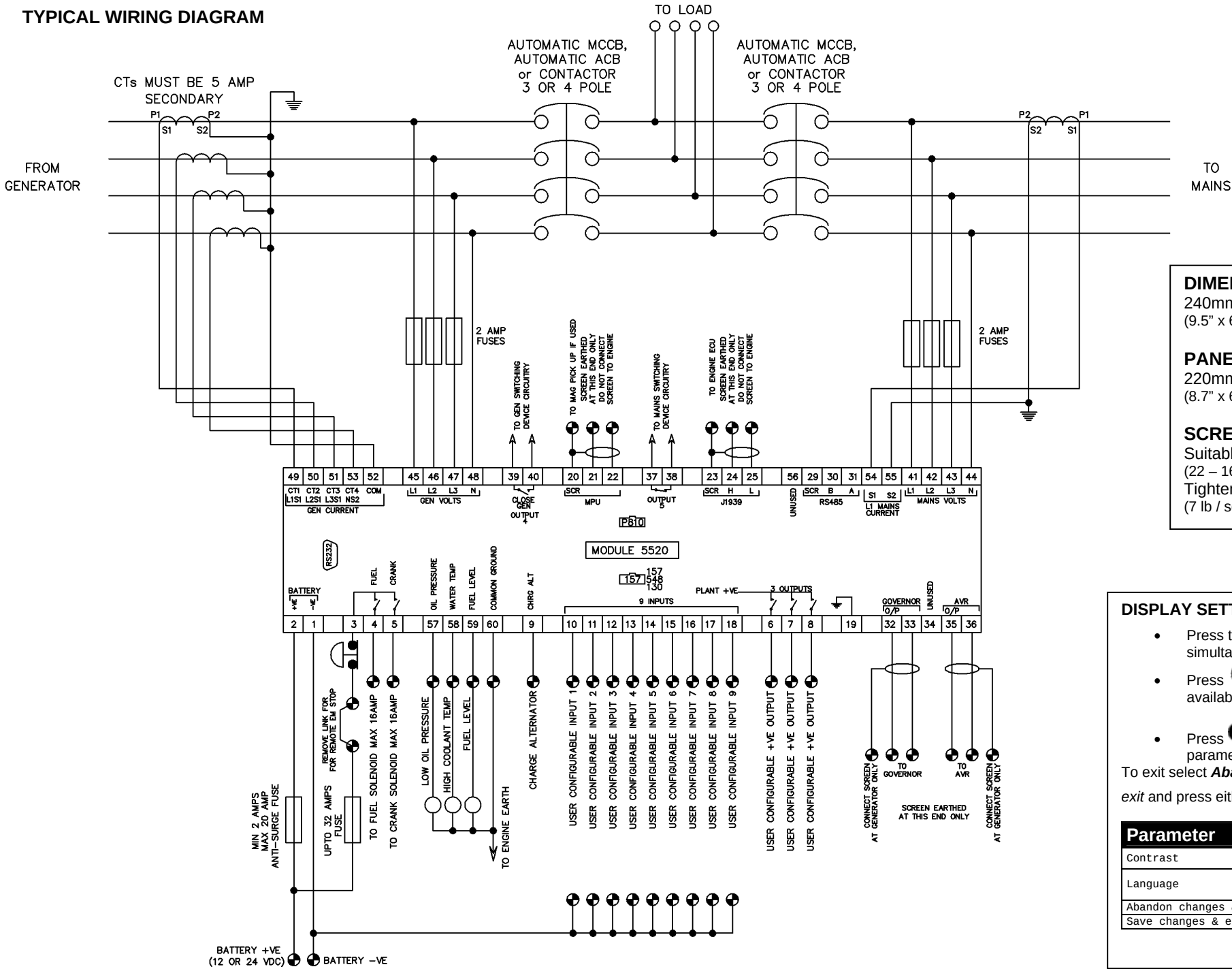
**▲NOTE:-** Languages are subject to change as the modules are updated. Please contact us for the list of latest supported languages.

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TYPICAL WIRING DIAGRAM



**DIMENSIONS**  
240mm x 172mm x 57mm  
(9.5" x 6.8" x 2.25")

**PANEL CUTOUT :**  
220mm x 160mm  
(8.7" x 6.3")

**SCREW TERMINALS**  
Suitable for : 0.6mm<sup>2</sup> - 1.3mm<sup>2</sup>  
(22 – 16 AWG)  
Tightening torque : 0.8Nm  
(7 lb / sq in)

- DISPLAY SETTINGS**
- Press the buttons simultaneously to enter the editor.
  - Press button to cycle round the available parameters.
  - Press to change the visible parameter.
- To exit select **Abandon** or **Save changes and exit** and press either button.

| Parameter              | Values                                                                     |
|------------------------|----------------------------------------------------------------------------|
| Contrast               | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Language               | ENGLISH, OTHERS                                                            |
| Abandon changes & exit |                                                                            |
| Save changes & exit    |                                                                            |