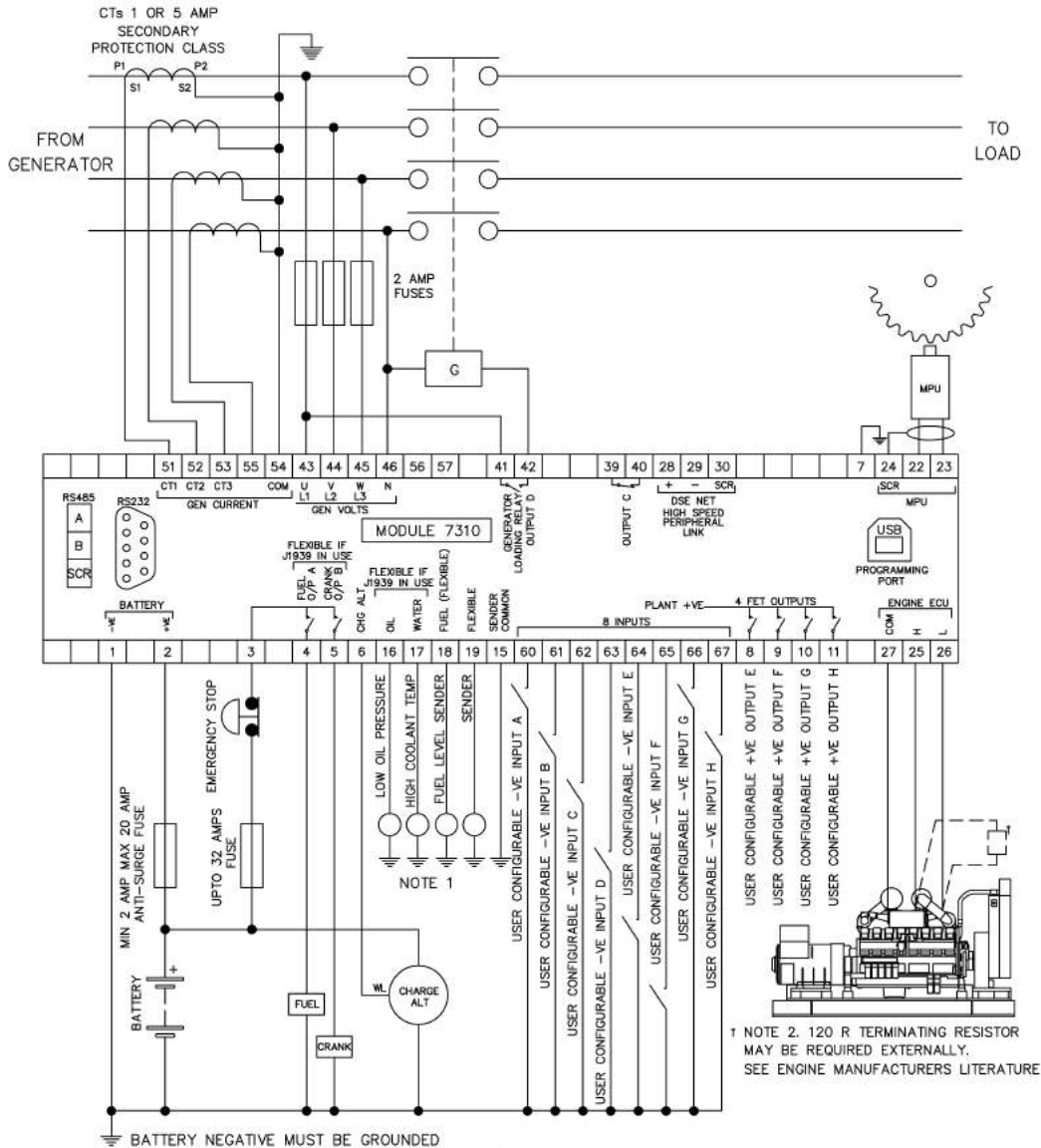


TYPICAL WIRING DIAGRAM



TERMINALS SUITABLE FOR 22-16 AWG (0.6mm - 1.3mm) FIELD WIRING TIGHTENING TORQUE = 0.8Nm (7lb-in)

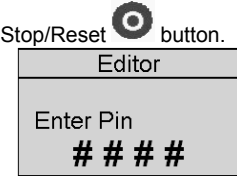
NOTE 1
 THESE GROUND CONNECTIONS MUST BE ON THE ENGINE BLOCK, AND MUST BE TO THE SENDER BODIES.
 THE GROUND WIRE TO TERMINAL 15 NOT BE USED TO PROVIDE A GROUND CONNECTION TO ANY OTHER DEVICE

| | | |
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| Deep Sea Electronics Plc. Tel:+44 (0)1723 890099 Fax: +44 (0)1723 893303 LO CALL (from UK BT landlines) : Telephone 0845 260 8933 Email: support@deepseapl.com Web: www.deepseapl.com | Deep Sea Electronics inc. Phone: +1 (815) 316-8706 Fax: +1 (815) 316- 8708 TOLL FREE (USA only) : Tel: 1 866 636 9703 Email: dsesales@deepseausa.com Web: www.deepseausa.com | Deep Sea Electronics Plc. (Far East) Tel:+66 2 670 6228 Fax: +66 2 678 3028 Email: support@deepseapl.com Web: www.deepseapl.com |
|--|--|--|



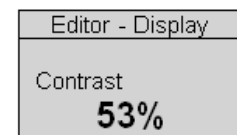
ACCESSING THE FRONT PANEL CONFIGURATION EDITOR

- Ensure the engine is at rest and the module is in STOP mode by pressing the Stop/Reset button.
- Press the Stop/Reset and Info buttons simultaneously.
- If a module security PIN has been set, the PIN number request is then shown :



- Press the first '#', the first '#' changes to '0'. Press (up) or (down) to adjust it to the correct value.
- Press (right) when the first digit is correctly entered. The digit you have just entered will now show '#' for security.
- Repeat this process for the other digits of the PIN number. You can press (left) if you need to move back to adjust one of the previous digits.
- When is pressed after editing the final PIN digit, the PIN is checked for validity. If the number is not correct, you must re-enter the PIN.

- If the PIN has been successfully entered (or the module PIN has not been enabled), the editor is displayed :



EDITING A PARAMETER

- Enter the editor as described above.
- Press the left or right buttons to cycle to the section you wish to view/change.
- Press the up or down buttons to select the parameter you wish to view/change within the currently selected section.
- To edit the parameter, press to enter edit mode. The parameter begins to flash to indicate that you are editing the value.
- Press the up or down buttons to change the parameter to the required value.
- Press to save the value. The parameter ceases flashing to indicate that it has been saved.
- To exit the editor at any time, press and hold the button.

| |
|---|
| <p>▲ NOTE: When the editor is visible, it is automatically exited after 5 minutes of inactivity to ensure security.</p> <p>▲ NOTE: The PIN number is automatically reset when the editor is exited (manually or automatically) to ensure security.</p> <p>▲ NOTE: More comprehensive module configuration is possible using the 7xxx series PC configuration software. Please contact us for further details</p> |
|---|

ADJUSTABLE PARAMETERS (Configuration editor)


Front Panel Configuration Editor

| Section | Parameter as shown on display | Factory Settings | |
|------------------------------------|-------------------------------------|-------------------------------------|------|
| DISPLAY | Contrast | 53% | |
| | Language | English | |
| | LCD Page Timer | 5m | |
| | Auto Scroll Delay | 2s | |
| | Current Date and time | hh:mm | |
| EDITOR | Alt Config | Default Config | |
| ENGINE | Oil Pressure Low Shutdown | 1.03bar | |
| | Oil Pressure Low Pre Alarm | 1.17bar | |
| | Coolant Temperature Low Warning | 70°C | |
| | Coolant Temperature High Pre Alarm | 90°C | |
| | Coolant Temperature High Shutdown | 95°C | |
| | Start Delay Timer | 5s | |
| | Pre Heat Timer | 0s | |
| | Crank Duration Timer | 10s | |
| | Crank Rest Timer | 10s | |
| | Safety On Delay | 10s | |
| | Smoke Limiting | 0s | |
| | Smoke Limiting Off | 0s | |
| | Warm Up Timer | 0s | |
| | Cool Down Timer | 1m | |
| | Engine Under Speed Shutdown | Inactive | |
| | Engine Under Speed Shutdown | 1200RPM | |
| | Engine Under Speed warning | Inactive | |
| | Engine Under Speed warning | 1350RPM | |
| | Engine Over Speed warning | Inactive | |
| | Engine Over Speed warning | 1650RPM | |
| | Engine Over Speed Shutdown | 1710RPM | |
| | Engine Speed Overshoot Delay | 2s | |
| | Engine Speed Overshoot | 0s | |
| | Fail To Stop Delay | 30s | |
| | Battery Under voltage warning | Active | |
| | Battery Under voltage warning Delay | 1m | |
| | Battery Under Voltage | 10V | |
| | Battery Over Voltage warning | Active | |
| | Battery Over Voltage warning Delay | 1m | |
| | Battery Over Voltage warning | 30V | |
| | Charge Alternator Failure warning | Active | |
| | Charge Alternator Failure warning | 6V | |
| | Charge Alternator warning Delay | 5s | |
| | Charge Alternator Failure Shutdown | Active | |
| | Charge Alternator Failure Shutdown | 4.0V | |
| | Charge Alternator Shutdown Delay | 5s | |
| | Droop control | Inactive | |
| | Droop control | 4% | |
| | | Compatible engine ECUs only | |
| | GENERATOR | Generator Under Voltage Shutdown | 184V |
| | | Generator Under Voltage Pre Alarm | 196V |
| | | Generator Voltage Nominal | 230V |
| | | Generator Over Voltage Pre Alarm | 265V |
| | | Generator Over Voltage Shutdown | 277V |
| | | Generator Under Frequency Shutdown | 40Hz |
| | | Generator Under Frequency Pre Alarm | 42Hz |
| | | Generator Frequency Nominal | 50Hz |
| Generator Over Frequency Pre Alarm | | 55Hz | |
| Generator Over Frequency Shutdown | | 57Hz | |
| Full Load Rating | | 500A | |
| Kw Overload Trip | | 100% | |
| Delayed Over Current | | Active | |
| Delayed Over Current | | 100% | |
| AC System | | 3 Phase, 4 Wire | |
| CT Primary | | 600A | |
| CT Secondary | | 5A | |
| Earth CT Primary | | 500A | |
| Earth Fault Trip | | Inactive | |
| Earth Fault Trip | | 10% | |
| Generator Transient Delay | | 0s | |




Front Panel Configuration Editor

| Section | Parameter as shown on display | Factory Settings |
|---------|------------------------------------|------------------|
| TIMERS | LCD Page Timer | 5m |
| | Auto Scroll Delay | 2s |
| | Start Delay Timer | 5s |
| | Pre Heat Timer | 0s |
| | Crank Duration Timer | 10s |
| | Crank Rest Timer | 10s |
| | Safety On Delay | 10s |
| | Smoke Limiting | 0s |
| | Smoke Limiting Off | 0s |
| | Warm Up Timer | 0s |
| | Cool Down Timer | 1m |
| | Speed Overshoot Delay | 2s |
| | Fail To Stop Delay | 30s |
| | Battery voltage Low warning Delay | 1m |
| | Battery voltage High warning Delay | 1m |
| | Return Delay | 30s |
| | Generator Transient Delay | 30s |

ACCESSING THE 'RUNNING' CONFIGURATION EDITOR

- The 'running' editor can be entered while the engine is running. All protections remain active if the engine is running while the running editor is entered.
- Press and hold the  button to enter the running editor.

EDITING A PARAMETER

- Enter the editor as described above.
- Press the left or right buttons to cycle to the section you wish to view/change.
- Press the up or down buttons to select the parameter you wish to view/change within the currently selected section.
- To edit the parameter, press  to enter edit mode. The parameter begins to flash to indicate that you are editing the value.
- Press the up or down buttons to change the parameter to the required value.
- Press  to save the value. The parameter ceases flashing to indicate that it has been saved.
- To exit the editor at any time, press and hold the  button.

ADJUSTABLE PARAMETERS (Running editor)

Running Editor

| Section | Parameter as shown on display | Factory Settings |
|---------|---|------------------|
| DISPLAY | Contrast | 53% |
| | Language | English |
| ENGINE | Manual Frequency Trim (Electronic engines only) | 0.0Hz |

DIMENSIONS

240.0mm x 181.1mm x 41.7mm (9.4" x 7.1" x 1.6")

PANEL CUTOUT:

220mm x 160mm (8.7" x 6.3")