ADJUSTABLE PARAMETERS (Factory default settings are shown in bold italicised text)

Section	Parameter	Display shows	Values
Input settings	Low Oil Pressure warning	Oil pressure pre-alarm	0-4bar (***1.17bar***)
	Low Oil Pressure shutdown	Oil pressure shutdown	0-4bar (***1.03bar***)
	High Temperature warning	Coolant temp pre-alarm	80-140°C (***110°C***)
	High Temperature shutdown	Coolant temp shutdown	80-140°C (***120°C***)
Timers	Mains transient delay	Mains transient delay	0-10s (***2s***)
	Generator transient delay	Gen transient delay	0 -10s (***0s***)
	Start delay	Start delay	0 -60m (***5s***)
	Return delay	Return delay	0 -60m (***30s***)
	Preheat	Preheat	0 -60m (***5s***)
	Crank attempt	Cranking time	0 -60s (***10s***)
	Crank rest	Crank rest	0-60s (***10s***)
	Safety delay	Safety on	0-30s (***10s***)
	Overspeed overshoot	Overspeed overshoot	0-10s (***0s***)
	Warming up	Warm up	0-60m (***0s***)
	Transfer delay	Transfer delay	0-10m (***1s***)
	Cooling run	Cooling	0-60m (***60s***)
	Fail to stop delay	Fail to stop	0-30s (***30s***)
	Low battery volts delay	Battery low delay	0-10m (***30s***)
	High battery volts delay	Battery high delay	0-10m (***30s***)
Mains (utility)	Mains Low Voltage	Mains undervolt trip	50-360V ph-N (***184V***)
	Mains High Voltage	Mains overvolt trip	50-360V ph-N (***276V***)
	Mains Low Frequency	Mains underfreq trip	50-360V ph-N (***184V***)
	Mains High Frequency	Mains overfreq trip	50-360V ph-N (***276V***)
Generator	Generator Under voltage shutdown	Gen low voltage shutdown	50-360V ph-N (***184V***)
	Generator Under voltage prealarm	Gen low voltage prealarm	50-360V ph-N (***196V***)
	Generator Over voltage prealarm	Gen high voltage prealarm	50-360V ph-N (***253V***)
	Generator Over voltage shutdown	Gen high voltage shutdown	50-360V ph-N (***265V***)
	Generator Under frequency shutdown	Gen low frequency shutdown	0 -75Hz (***40Hz***)
	Generator Under frequency prealarm	Gen low frequency prealarm	0 -75Hz (***42Hz***)
	Generator Over frequency prealarm	Gen high frequency prealarm	0 -75Hz (***55Hz***)
	Generator Over frequency shutdown	Gen high frequency shutdown	0 -75Hz (***57Hz***)
	Generator delayed overcurrent	Delayed high current	100-200% (***100%***)
Engine	Underspeed (RPM) shutdown	Underspeed shutdown	0-6000RPM (***1270***)
	Underspeed (RPM) warning	Underspeed prealarm	0-6000RPM (***1350***)
	Overspeed (RPM) warning	Overspeed prealarm	0-6000RPM (***1650***)
	Overspeed (RPM) shutdown	Overspeed shutdown	0-6000RPM (***1710***)
	Overspeed overshoot %	Overspeed overshoot	0-10 (***0%***)
	Low DC Voltage	Battery low warning	0-24V (***9V***)
	High DC Voltage	Battery high warning	0-24V (***33V***)
	Charge Alternator Failure	Charge fail warning	0-24V (***8V***)
Display	Language	Language	***ENGLISH***, OTHER (see note below)
	LCD Contrast	Contrast	□ | ■
Clock	Date/Time	Date and Time	dd mmm yyyy hh:mm

⚠NOTE:- More comprehensive module configuration is possible using the 4000/5000 series PC configuration software in conjunction with the P810 PC interface. Please contact us for further details.

⚠NOTE:- Front panel language configuration is between English and one other PC configurable language.

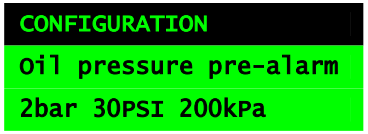
DEEP SEA ELECTRONICS

ISSUE1

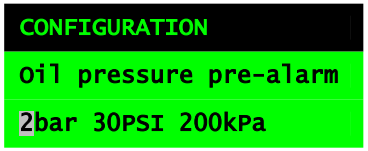
5320 INSTALLATION INSTRUCTIONS

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) the first configurable parameter 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.

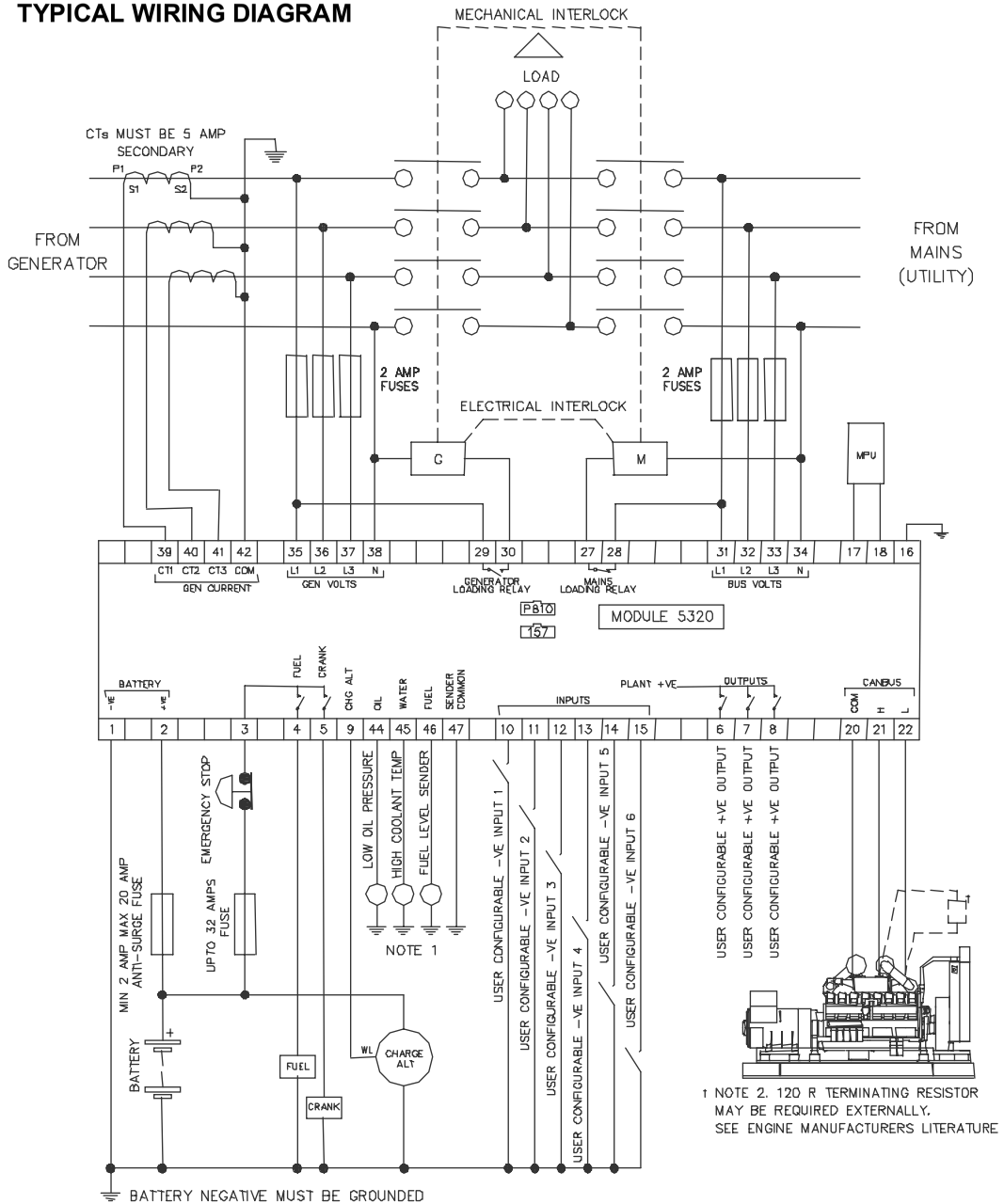
⚠NOTE:- When the editor is visible, it is automatically exited after 5 minutes of inactivity to ensure security.

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

Deep Sea Electronics Plc.
Highfield House, Hunmanby Industrial Estate,
North Yorkshire. YO14 0PH.
ENGLAND
Tel:+44 (0)1723 890099.
Fax: +44 (0)1723 893303.
Email: sales@deepseaplc.com
Web: www.deepseaplc.com

Deep Sea Electronics inc.
5301 E. State St. – Suite 202
Rockford, Illinois 61108
U.S.A.
Phone: +1 (815) 316-8706
Fax: +1 (815) 316-8708
Email: dsesales@deepseausa.com
Web: www.deepseausa.com

TYPICAL WIRING DIAGRAM



BATTERY NEGATIVE MUST BE GROUNDED

TERMINALS SUITABLE FOR 22–16 AWG (0.6mm – 1.3mm) FIELD WIRING

TIGHTENING TORQUE = 0.8Nm (7lb–in)

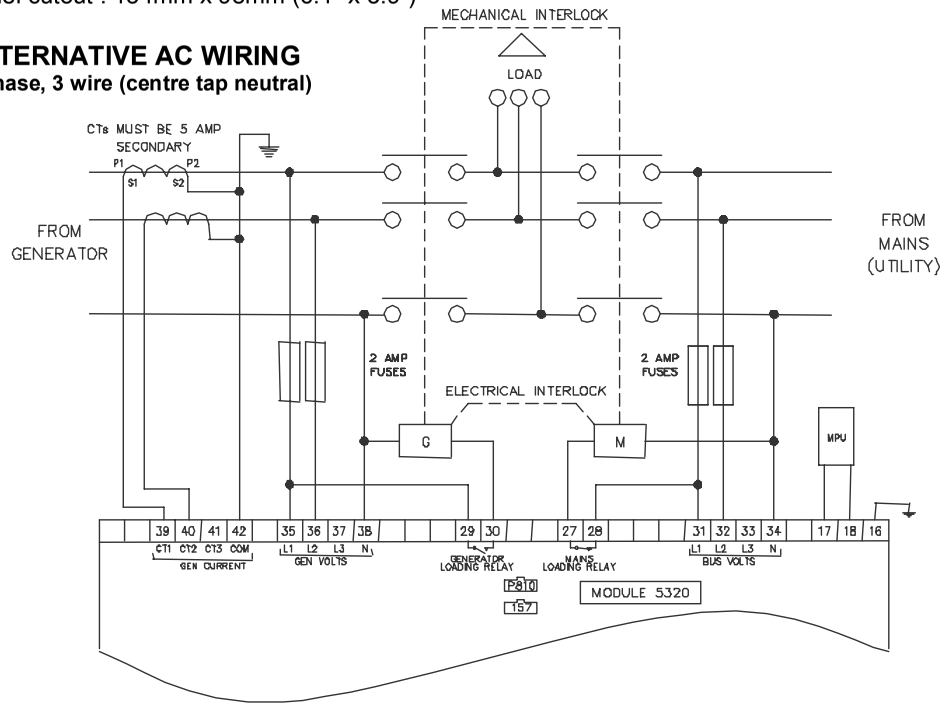
NOTE 1
THESE GROUND CONNECTIONS MUST BE ON THE ENGINE BLOCK, AND MUST BE TO THE SENDER BODIES.
THE GROUND WIRE TO TERMINAL 47 MUST NOT BE USED TO PROVIDE A GROUND CONNECTION TO ANY OTHER DEVICE

DIMENSIONS

Module dimensions : 171mm x 115mm x 49mm (6.7” x 4.5” x 1.9”)
Panel cutout : 154mm x 98mm (6.1” x 3.9”)

ALTERNATIVE AC WIRING

2 phase, 3 wire (centre tap neutral)



ALTERNATIVE AC WIRING

3 phase, 3 wire