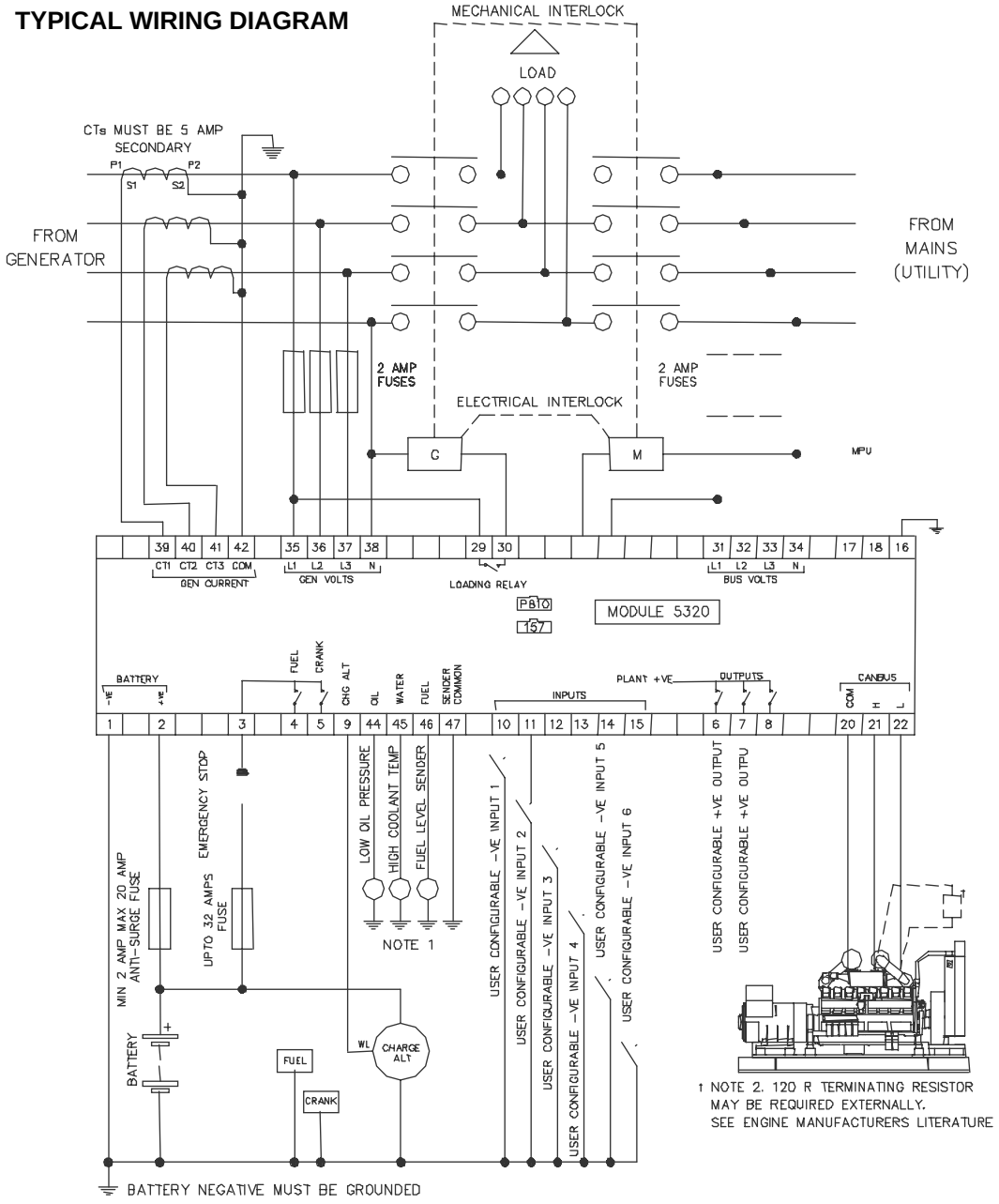
TYPICAL WIRING DIAGRAM



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 : 240mm x 172mm x 57mm (9.5” x 6.8” x 2.25”)
PANEL CUTOUT : 220mm x 160mm (8.7” x 6.3”)

DEEP SEA ELECTRONICS

053-014
ISSUE4

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) :

CONFIGURATION
ENTER PIN
****

- 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 :

CONFIGURATION
Oil pressure pre-alarm
2bar 30PSI 200kPa

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.

CONFIGURATION
Oil pressure pre-alarm
2bar 30PSI 200kPa

- 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.

Deep Sea Electronics Plc.
Highfield House, Hunmanby Industrial Estate,
North Yorkshire. YO14 0PH.
ENGLAND
Tel:+44 (0)1723 890099.
Fax: +44 (0)1723 893303.
LO CALL (from UK BT landlines) :
Telephone 0845 260 8900. Fax 0845 260 8901
Email: sales@deepseaplc.com
Web: www.deepseaplc.com

Deep Sea Electronics inc.
3230 Williams Avenue
Rockford, Illinois 61101-2668,
U.S.A.
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

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 (**115°C**)
	High Temperature shutdown	Coolant temp shutdown	80-140°C (**120°C**)
	Low Temperature warning	Low Coolant temp	0-138°C (**64°C)**
Timers	Mains transient delay	Mains transient delay	0-30s (***2s***)
	Generator transient delay	Gen transient delay	0 -30s (***0s***)
	Start delay	Start delay	0 -10h (***5s***)
	Return delay	Return delay	0 -5h (***30s***)
	Preheat	Preheat	0 -5m (***0s***)
	Crank attempt	Cranking time	0 -60s (***10s***)
	Crank rest	Crank rest	0-60s (***10s***)
	Safety delay	Safety on	0-60s (***10s***)
	Overspeed overshoot	Overspeed overshoot	0-10s (***2s***)
	Warming up	Warm up	0-60m (***0s***)
	Transfer delay	Transfer delay	0-10m (0.***7s***)
	Cooling run	Cooling	0-60m (***60s***)
	Fail to stop delay	Fail to stop	0-2m (***30s***)
	Low battery volts delay	Battery low delay	0-24h (***60s***)
	High battery volts delay	Battery high delay	0-24h (***60s***)
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	0-75Hz (**45Hz**)
	Mains High Frequency	Mains overfreq trip	0-75Hz (**55Hz**)
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 (***265V***)
	Generator Over voltage shutdown	Gen high voltage shutdown	50-360V ph-N (***276V***)
	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	0-40V (***8V***)
	High DC Voltage	Battery high warning	0-40V (***33V***)
	Charge Alternator Failure	Charge fail warning	0-39V (***6V***)
Display	Language	Language	***ENGLISH,*** OTHER

ADJUSTABLE PARAMETERS (continued)

Section	Parameter	Display shows	Values
Application	Engine speed selection	Alternative Frequency	***Disable***, Enable
	Volts selection	Alternative Voltage	***Disable***, Enable
	AC System	AC System	***3 phase 4 wire*** Single phase, 2 wire 3 phase, 3 wire 2 phase 3 wire (L1 & L2) 2 phase 3 wire (L1 & L3)
	Generator Full Load	Generator full load	0-6000A(500A)
	Droop control	Droop	***Disable,*** Enable
		Droop	0% (0%-5%) Compatible engine ECUs only
	Frequency Adjust	Frequency Adjust	Cummins CM850 only
	LCD Contrast	Contrast	□ | ■
	Date/Time	Date and Time	dd mmm yyyy hh:mm

ALTERNATIVE AC WIRING

3 phase, 3 wire

For other AC systems please consult the module operators manual