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

TIGHTENING TORQUE = 0.8Nm (7lb-in)

BATTERY NEGATIVE MUST BE GROUNDED

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 O 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 \*\*\*

**CONFI GURATI ON** 

2bar 30PSI 200kPa

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:

## Oil pressure pre-alarm

### **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.

# **CONFI GURATI ON** 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 O button. Ensure you have saved any changes you have made by pressing the ✓ button first.

 $oldsymbol{\Delta}$ NOTE:- When the editor is visible, it is automatically exited after 5 minutes of inactivity to ensure security.

 $oldsymbol{\Delta}$ 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.

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

Section	Parameter	Display shows	Values
Input settings		Oil pressure pre-alarm	0-4bar ( <b>1.17bar</b> )
	Low Oil Pressure shutdown	Oil pressure shutdown	0-4bar ( <b>1.03bar</b> )
	High Temperature warning	Coolant temp pre-alarm	80-140°C ( <b>115°C</b> )
	High Temperature shutdown	Cool ant temp shutdown	80-140°C ( <b>113°C</b> )
	Low Temperature warning	Low Coolant temp	0-138°C ( <b>64°C)</b>
Timers	Mains transient delay	Mains transient delay	0-30s ( <b>2s</b> )
	Generator transient delay	Gen transient delay	0 -30s ( <b>0s</b> )
	Start delay	Start delay	0 -10h ( <b>5s</b> )
	Return delay	Return delay	0 -5h ( <b>30s</b> )
	Preheat	Preheat	0 -5m ( <b>0s</b> )
	Crank attempt	Cranking time	0 -60s ( <b>10s</b> )
	Crank rest	Crank rest	0-60s ( <b>10s</b> )
	Safety delay	Safety on	0-60s ( <b>10s</b> )
	Overspeed overshoot	Overspeed overshoot	0-10s ( <b>2s</b> )
	Warming up	Warm up	0-60m ( <b>0s</b> )
	Transfer delay	Transfer del ay	0-10m (0 <b>.7s</b> )
	Cooling run	Cool i ng	0-60m ( <b>60s</b> )
	Fail to stop delay	Fail to stop	0-2m ( <b>30s</b> )
	Low battery volts delay	Battery low delay	0-24h ( <b>60s</b> )
	High battery volts delay	Battery high delay	0-24h ( <b>60s</b> )
Mains (utility)	Mains Low Voltage	Mains undervolt trip	50-360V ph-N ( <b>184V</b> )
mains (duity)	Mains High Voltage	Mains overvolt trip	50-360V ph-N ( <b>276V</b> )
	Mains Low Frequency	Mains underfreg trip	0-75Hz ( <b>45Hz</b> )
	Mains High Frequency	Mains overfreq trip	0-75Hz ( <b>55Hz</b> )
Generator	Generator Under voltage shutdown	Gen low voltage shutdown	50-360V ph-N ( <b>184V</b> )
	Generator Under voltage prealarm	Gen low voltage prealarm	50-360V ph-N ( <b>196V</b> )
	Generator Over voltage prealarm	Gen high voltage prealarm	50-360V ph-N ( <b>265V</b> )
	Generator Over voltage shutdown	Gen high voltage shutdown	50-360V ph-N ( <b>276V</b> )
	Generator Under frequency shutdown	Gen low frequency shutdown	0 -75Hz ( <b>40Hz</b> )
	Generator Under frequency prealarm	Gen low frequency prealarm	0 -75Hz ( <b>42Hz</b> )
	Generator Over frequency prealarm	Gen high frequency prealarm	0 -75Hz ( <b>55Hz</b> )
	Generator Over frequency shutdown	Gen high frequency shutdown	0 -75Hz ( <b>57Hz</b> )
	Generator delayed overcurrent	Delayed high current	100-200% ( <b>100</b> %)
Engine	Underspeed (RPM) shutdown	Underspeed shutdown	0-6000RPM ( <b>1270</b> )
	Underspeed (RPM) warning	Underspeed prealarm	0-6000RPM ( <b>1350</b> )
	Overspeed (RPM) warning	Overspeed prealarm	0-6000RPM ( <b>1650</b> )
	Overspeed (RPM) shutdown	Overspeed shutdown	0-6000RPM ( <i>1710</i> )
	Overspeed overshoot %	Overspeed overshoot	0-10 ( <b>0</b> %)
	Low DC Voltage	Battery low warning	0-40V ( <b>8V</b> )
	High DC Voltage	Battery high warning	0-40V ( <b>33V</b> )
	Charge Alternator Failure	Charge fail warning	0-39V ( <b>6V</b> )
Display	Language	Language	<i>ENGLI SH</i> , OTHER

# ADJUSTABLE PARAMETERS (continued)

Section	Parameter	Display shows	Values
Application	Engine speed selection	Al ternative Frequency	Disable, Enable
	Volts selection	Al ternati ve Vol tage	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

