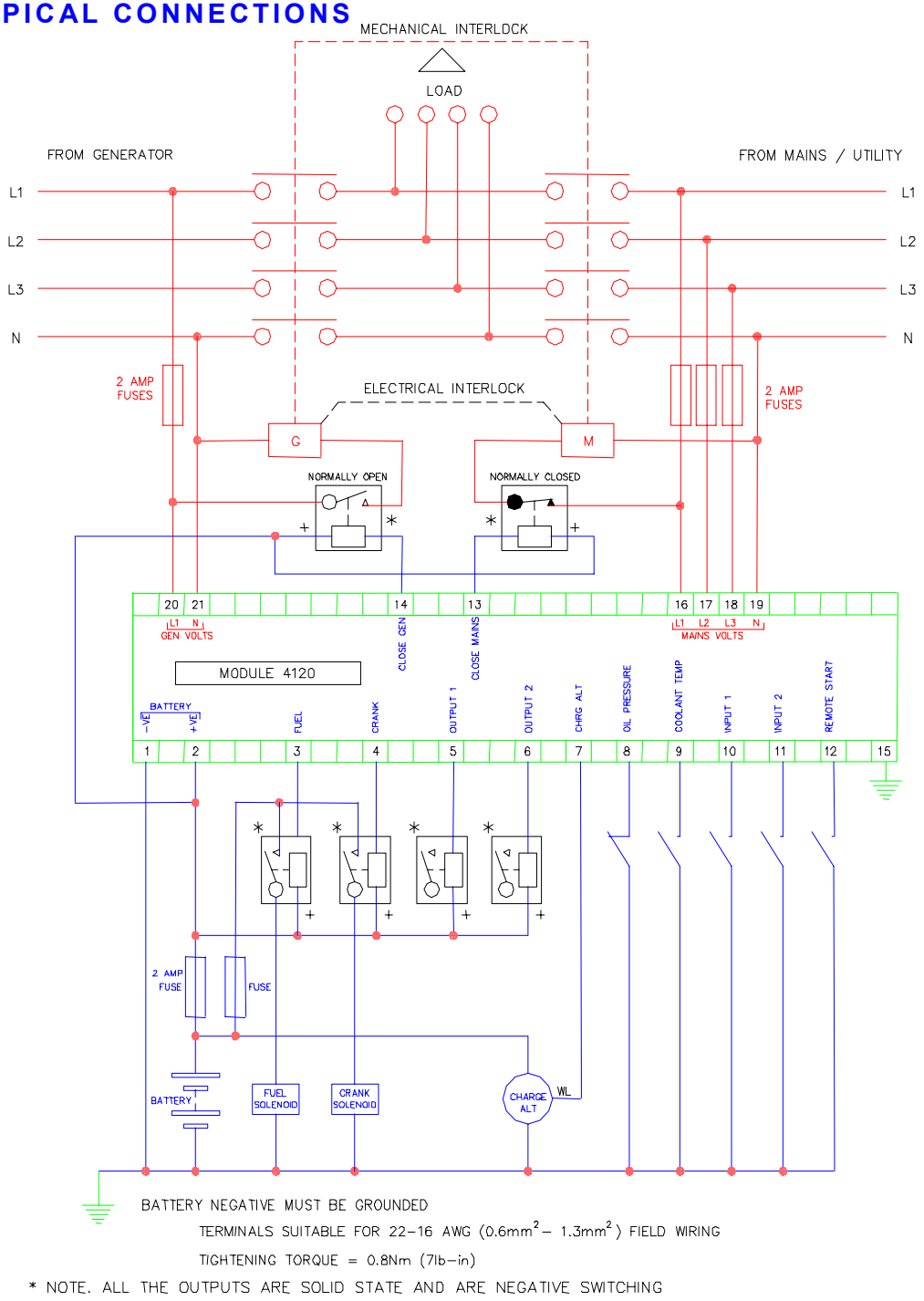
TYPICAL CONNECTIONS



BATTERY NEGATIVE MUST BE GROUNDED

TERMINALS SUITABLE FOR 22-16 AWG (0.6mm^2 – 1.3mm^2) FIELD WIRING

TIGHTENING TORQUE = 0.8Nm (7lb-in)

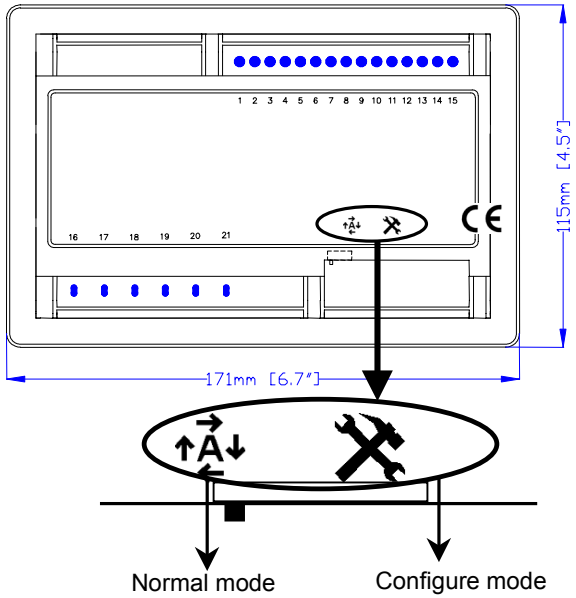
* NOTE. ALL THE OUTPUTS ARE SOLID STATE AND ARE NEGATIVE SWITCHING

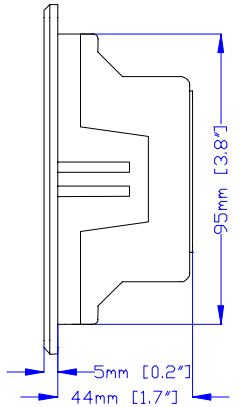
DEEP SEA ELECTRONICS

ISSUE 2

4120 INSTALLATION INSTRUCTIONS

- With the unit in **Stop** mode, **Configuration Mode** is selected by operation of a small switch on the rear, bottom edge of the PCB. This is partially hidden to prevent accidental operation
- Once Configuration Mode is selected, the 'Auto' LED will commence rapid flashing. When in Configuration Mode all normal operation is suspended.
- The 'Stop' pushbutton can be used to select the LED 'code' that corresponds to the required function. The 5 left hand LED's will form the code.
- The 'Manual' pushbutton will allow the user to change the function parameters. The 3 right-hand LED's inform the user of the current setting for the chosen function.
- When the required parameters are displayed, pressing the 'Auto' button will save the new setting. The process is repeated for each function change.
- When configuration is complete, the Configuration Mode Selector Switch should be returned to the 'Normal' position. A key to all configuration options is provided overleaf on the Functions and Parameters table.





Panel Cut Out :
154mm x 98mm (6.1" x 3.9")

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FUNCTIONS AND CONFIGURATION TABLE

Function							! 1	! 2	Value *(Default in bold Italics)*
Pre-heat Timer	○	○	○	○	●	○	○	○	***0 Seconds***
						○	○	●	5 Seconds
						○	●	○	10 Seconds
						○	●	●	15 Seconds
						●	○	○	20 Seconds
						●	○	●	30 Seconds
						●	●	○	60 Seconds
						●	●	●	180 Seconds
Start Delay	○	○	○	●	○	○	○	○	0 Seconds
						○	○	●	***5 Seconds***
						○	●	○	10 Seconds
						○	●	●	15 Seconds
						●	○	○	20 Seconds
						●	○	●	30 Seconds
						●	●	○	60 Seconds
						●	●	●	180 Seconds
Stop Delay	○	○	○	●	●	○	○	○	0 Seconds
						○	○	●	5 Seconds
						○	●	○	10 Seconds
						○	●	●	15 Seconds
						●	○	○	20 Seconds
						●	○	●	***30 Seconds***
						●	●	○	60 Seconds
						●	●	●	180 Seconds
Energise to Stop Timer	○	○	●	○	○	○	○	○	***0 Seconds***
						○	○	●	5 Seconds
						○	●	○	10 Seconds
						○	●	●	15 Seconds
						●	○	○	20 Seconds
						●	○	●	30 Seconds
						●	●	○	60 Seconds
						●	●	●	180 Seconds
Warm-up Timer	○	○	●	○	●	○	○	○	***0 Seconds***
						○	○	●	5 Seconds
						○	●	○	10 Seconds
						○	●	●	15 Seconds
						●	○	○	20 Seconds
						●	○	●	30 Seconds
						●	●	○	60 Seconds
						●	●	●	180 Seconds
Cooling Timer	○	○	●	●	○	○	○	○	***0 Seconds***
						○	○	●	5 Seconds
						○	●	○	10 Seconds
						○	●	●	15 Seconds
						●	○	○	20 Seconds
						●	○	●	30 Seconds
						●	●	○	60 Seconds
						●	●	●	180 Seconds
Nominal Frequency	○	●	○	○	○	○	○	○	***50 Hz (O/S +14% / Overshoot***
						○	○	●	60 Hz (O/S +14% / Overshoot +24%)
Nominal DC Voltage	○	●	○	○	●	○	○	○	***12V DC (CF 8V)***
						○	○	●	24V DC (CF 16V)
LOP Switch Contact	○	●	○	●	○	○	○	○	***Close on Fault***
						○	○	●	Open on Fault
HET Switch Contact	○	●	○	●	●	○	○	○	***Close on Fault***
						○	○	●	Open on Fault
Crank disconnect on Oil Pressure	○	●	●	○	○	○	○	○	***Disabled***
						○	○	●	Enabled (2 Second Delay)
Underspeed detection	○	●	●	○	●	○	○	○	Disabled
						○	○	●	***Enabled (U/S –20%)***
Remote start function	○	●	●	●	○	○	○	○	***Remote start***
						○	○	●	Simulated mains
Remote start on load (ignore if simulated mains)	○	●	●	●	●	○	○	○	***Remote start is off load***
						○	○	●	Remote start is on load
Auxiliary Input 1 Function	●	○	○	○	○	○	○	○	***Immediate Warning Close on Fault***
						○	○	●	Immediate Warning Open on Fault
						○	●	○	Immediate Shutdown Close on Fault
						○	●	●	Immediate Shutdown Open on Fault
						●	○	○	Delayed Warning Close on Fault
						●	○	●	Delayed Warning Open on Fault
						●	●	○	Delayed Shutdown Close on Fault
						●	●	●	Delayed Shutdown Open on Fault
Auxiliary Input 2 Function	●	○	○	○	●	○	○	○	***Immediate Warning Close on Fault***
						○	○	●	Immediate Warning Open on Fault
						○	●	○	Immediate Shutdown Close on Fault
						○	●	●	Immediate Shutdown Open on Fault
						●	○	○	Delayed Warning Close on Fault
						●	○	●	Delayed Warning Open on Fault
						●	●	○	Delayed Shutdown Close on Fault
						●	●	●	Delayed Shutdown Open on Fault
Auxiliary Output 1 Function	●	○	○	●	○	○	○	○	Not used
						○	○	●	Pre-heat
						○	●	○	Load transfer
						○	●	●	Common Warning
						●	○	○	Common Shutdown
						●	○	●	System in Auto
						●	●	○	***Common Alarm***
						●	●	●	Energise to Stop
Auxiliary Output 2 Function	●	○	○	●	●	○	○	○	Not used
						○	○	●	***Pre-heat***
						○	●	○	Load transfer
						○	●	●	Common Warning
						●	○	○	Common Shutdown
						●	○	●	System in Auto
						●	●	○	Common Alarm
						●	●	●	Energise to Stop
Mains Under Voltage	●	○	●	○	○	○	○	○	60V / 70V
						○	○	●	70V / 80V
						○	●	○	80V / 90V
						○	●	●	90V / 100V
						●	○	○	120V / 140V
						●	○	●	140V / 160V
						●	●	○	160V / 180V
						●	●	●	***180V /200V***