

BATTERY NEGATIVE MUST BE GROUNDED

TERMINALS SUITABLE FOR 22-16 AWG (0.6mm<sup>2</sup> - 13mm<sup>2</sup>) FIELD WIRING

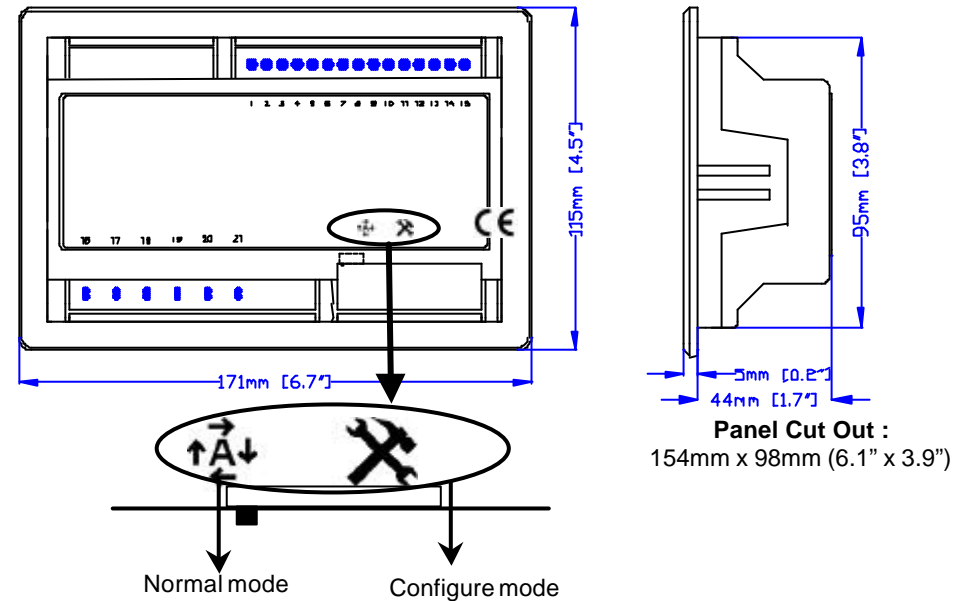
TIGHTENING TORQUE = 0.8Nm (7lb-in)

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



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.



<p><b>Deep Sea Electronics Plc.</b>                  Highfield House, Hunmanby Industrial Estate,                  North Yorkshire. YO14 0PH.                  ENGLAND                  Tel: +44 (0)1723 890099.                  Fax: +44 (0)1723 893303.                  Email: sales@deepseapl.com                  Web: www.deepseapl.com</p>	<p><b>Deep Sea Electronics inc.</b>                  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</p>
--	---

FUNCTIONS AND CONFIGURATION TABLE

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