

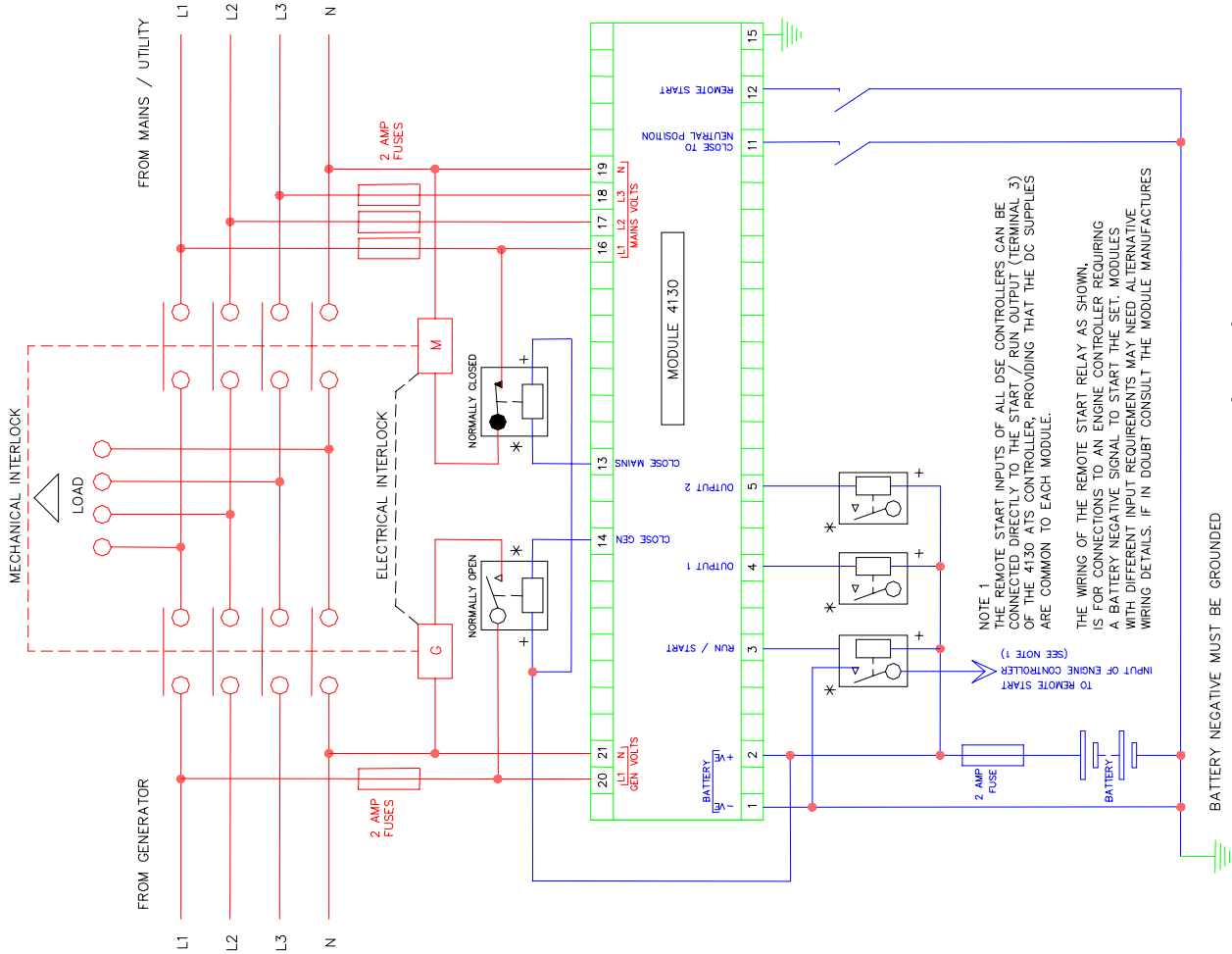




DEEP SEA ELECTRONICS

4130 INSTALLATION INSTRUCTIONS

- **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 'Manual On Load'  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 Off Load'  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.

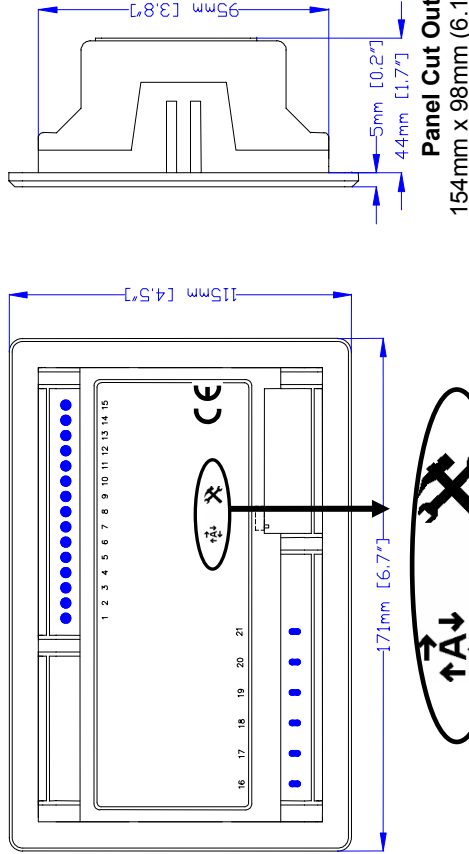


NOTE 1
THE REMOTE START INPUTS OF ALL DSE CONTROLLERS CAN BE CONNECTED DIRECTLY TO THE START / RUN OUTPUT (TERMINAL 3) OF THE 4130 ATIS CONTROLLER, PROVIDING THAT THE DC SUPPLIES ARE COMMON TO EACH MODULE.

THE WIRING OF THE REMOTE START RELAY AS SHOWN IS FOR CONNECTIONS TO AN ENGINE CONTROLLER REQUIRING A BATTERY NEGATIVE SIGNAL TO START THE SET. MODULES WITH DIFFERENT INPUT REQUIREMENTS MAY NEED ALTERNATIVE WIRING DETAILS. IF IN DOUBT CONSULT THE MODULE MANUFACTURERS

BATTERY NEGATIVE MUST BE GROUNDED
TERMINALS SUITABLE FOR 22-16 AWG (0.6mm² - 1.3mm²) FIELD WIRING
TIGHTENING TORQUE = 0.8Nm (7lb-in)

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



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Functions and configuration table

Function	Function code	Value code	Value (<i>Default in bold Italics</i>)		
Start Delay	○ ○ ○ ● ○	○ ○ ○	0 Seconds		
		○ ○ ●	5 Seconds		
		○ ● ○	10 Seconds		
		○ ● ●	15 Seconds		
		● ○ ○	20 Seconds		
		● ○ ●	30 Seconds		
		● ● ○	60 Seconds		
		● ● ●	180 Seconds		
Mains (utility) return delay	○ ○ ○ ● ●	○ ○ ○	0 Seconds		
		○ ○ ●	5 Seconds		
		○ ● ○	10 Seconds		
		○ ● ●	15 Seconds		
		● ○ ○	20 Seconds		
		● ○ ●	30 Seconds		
		● ● ○	60 Seconds		
		● ● ●	180 Seconds		
Warming	○ ○ ● ○ ●	○ ○ ○	0 Seconds		
		○ ○ ●	5 Seconds		
		○ ● ○	10 Seconds		
		○ ● ●	15 Seconds		
		● ○ ○	20 Seconds		
		● ○ ●	30 Seconds		
		● ● ○	60 Seconds		
		● ● ●	180 Seconds		
Cooling	○ ○ ● ● ○	○ ○ ○	0 Seconds		
		○ ○ ●	5 Seconds		
		○ ● ○	10 Seconds		
		○ ● ●	15 Seconds		
		● ○ ○	20 Seconds		
		● ○ ●	30 Seconds		
		● ● ○	60 Seconds		
		● ● ●	180 Seconds		
Remote start input type	○ ● ● ● ○	○ ○ ○	Remote Start		
		○ ○ ●	Simulated mains		
Remote start function (Not used when simulated mains is selected)	○ ● ● ● ●	○ ○ ○	Remote start is off load		
		○ ○ ●	Remote start is on load		
Auxiliary Output 1 Function	● ○ ○ ● ○	○ ○ ○	Not Used		
		○ ○ ●	Mains (utility) Fail		
		○ ● ○	Generator Available		
		○ ● ●	Generator on Load		
		● ○ ○	Mains On Load		
		● ○ ●	System in Auto		
		● ● ○	Close to Neutral position		
		○ ○ ○	Not Used		
Auxiliary Output 2 Function	● ○ ○ ● ●	○ ○ ●	Mains (utility) Fail		
		○ ● ○	Generator Available		
		○ ● ●	Generator on Load		
		● ○ ○	Mains On Load		
		● ○ ●	System in Auto		
		● ● ○	Close to Neutral position		
		Mains (utility) Under Voltage	● ○ ● ○ ○	○ ○ ○	60V / 70V
				○ ○ ●	70V / 80V
○ ● ○	80V / 90V				
○ ● ●	90V / 100V				
● ○ ○	120V / 140V				
● ○ ●	140V / 160V				
● ● ○	160V / 180V				
● ● ●	180V / 200V				