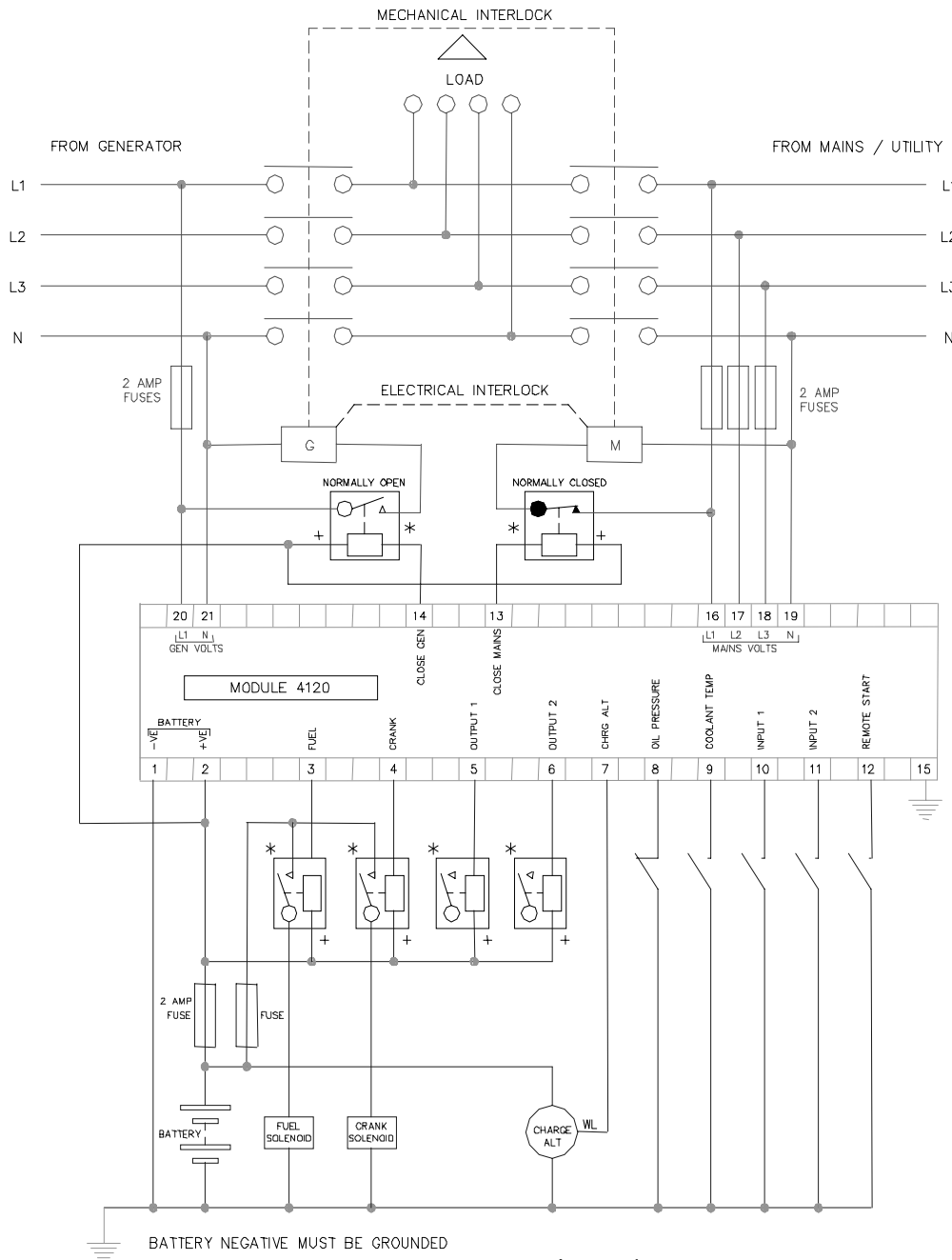




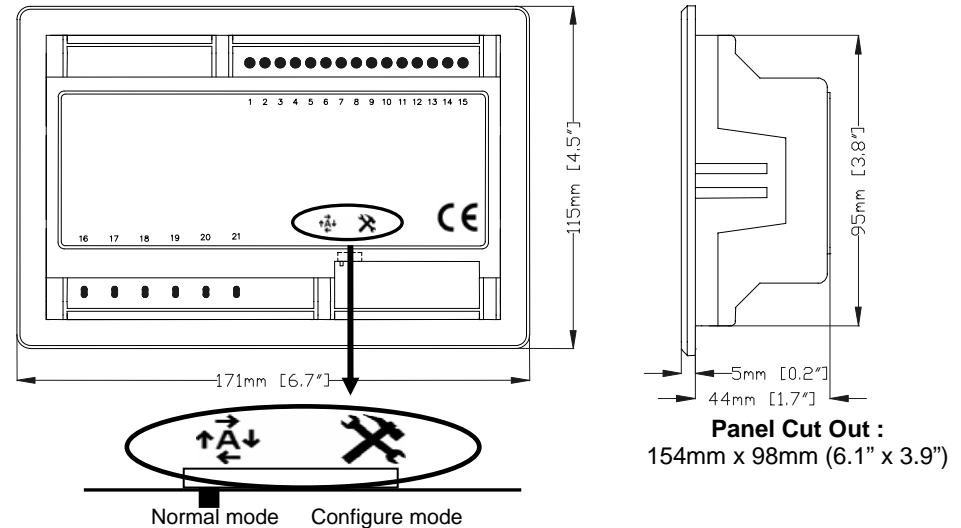
4120 INSTALLATION INSTRUCTIONS



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

- 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.
- **Exercise scheduler** - Press and hold the Auto button for 6 seconds. The generator will run for 30 minutes, this will be repeated automatically every 7 days from the time the scheduler was set. When the timer is active the led above the Auto button will flash. To disable the scheduler press and hold the Auto button again for 6 seconds, the led above the Auto button will stop flashing.



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FUNCTIONS AND CONFIGURATION TABLE

Function							I 1	I 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)	
Nominal DC Voltage	○	●	○	○	○	○	○	12V DC (CF 8V)								
LOP Switch Contact	○	●	○	●	○	○	○	Close on Fault								
HET Switch Contact	○	●	○	●	○	○	○	Close on Fault								
Crank disconnect on Oil Pressure	○	●	●	○	○	○	○	Disabled								
Underspeed detection	○	●	●	○	○	○	○	Enabled (2 Second Delay)								
Remote start function	○	●	●	●	○	○	○	Disabled								
Remote start on load (ignore if simulated mains)	○	●	●	●	○	○	○	Enabled (U/S -20%)								
Auxiliary Input 1 Function	●	○	○	○	○	○	○	Remote start								
Auxiliary Input 2 Function	●	○	○	○	○	○	○	○	Simulated mains							
									○	○	○	○	○	○	○	Remote start is off load
									○	○	○	○	○	○	○	Remote start is on load
									○	○	○	○	○	○	○	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
									○	○	○	○	○	○	○	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
									○	○	○	○	○	○	○	60V / 70V
○	○	○	○	○	○	○	70V / 80V									
○	○	○	○	○	○	○	80V / 90V									
○	○	○	○	○	○	○	90V / 100V									
○	○	○	○	○	○	○	120V / 140V									
○	○	○	○	○	○	○	140V / 160V									
○	○	○	○	○	○	○	160V / 180V									
○	○	○	○	○	○	○	180V / 200V									
Mains Under Voltage	●	○	●	○	○	○	○	○	60V / 70V							
									○	○	○	○	○	○	○	70V / 80V
									○	○	○	○	○	○	○	80V / 90V
									○	○	○	○	○	○	○	90V / 100V
									○	○	○	○	○	○	○	120V / 140V
									○	○	○	○	○	○	○	140V / 160V
									○	○	○	○	○	○	○	160V / 180V
									○	○	○	○	○	○	○	180V / 200V