

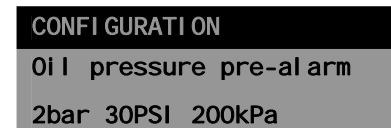
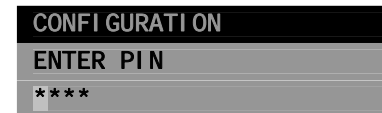


5310 INSTALLATION INSTRUCTIONS

Section	Parameter	Display shows	Values	
Input settings	Low Oil Pressure warning	Oil pressure pre-al arm	0-4bar (<i>1.17bar</i>)	
	Low Oil Pressure shutdown	Oil pressure shutdown	0-4bar (<i>1.03bar</i>)	
	High Temperature warning	High Coolant temp pre-al arm	80-140°C (<i>115°C</i>)	
	High Temperature shutdown	High Coolant temp shutdown	80-140°C (<i>120°C</i>)	
	Low Temperature warning	Low Coolant temp warning	80-140°C (<i>64°C</i>)	
Timers	Generator transient delay	Generator delay	0-30s (<i>0s</i>)	
	Start delay	Start delay	0-10hr (<i>5s</i>)	
	Return delay	Return delay	0-5hr (<i>30s</i>)	
	Preheat	Preheat	0-5m (<i>0s</i>)	
	Crank attempt	Cranking time	0-60s (<i>10s</i>)	
	Crank rest	Crank rest	0-60s (<i>10s</i>)	
	Safety delay	Safety on	0-60s (<i>10s</i>)	
	Overspeed overshoot	Overspeed overshoot	0-10s (<i>2s</i>)	
	Warming up	Warm up	0-60m (<i>0s</i>)	
	Cooling run	Cooling	0-60m (<i>1m</i>)	
	Fail to stop delay	Fail to stop	0-2m (<i>30s</i>)	
	Low battery volts delay	Battery low delay	0-24hr (<i>1m</i>)	
	High battery volts delay	Battery high delay	0-24hr (<i>1m</i>)	
	Generator	Generator Under voltage shutdown	Generator low voltage shutdown	50-360V ph-N (<i>184V</i>)
		Generator Under voltage prealarm	Generator low voltage prealarm	50-360V ph-N (<i>196V</i>)
Generator Over voltage prealarm		Generator high voltage prealarm	50-360V ph-N (<i>265V</i>)	
Generator Over voltage shutdown		Generator high voltage shutdown	50-360V ph-N (<i>276V</i>)	
Generator Under frequency		Generator low frequency shutdown	0-75Hz (<i>40Hz</i>)	
Generator Under frequency prealarm		Generator low frequency prealarm	0-75Hz (<i>42Hz</i>)	
Generator Over frequency prealarm		Generator high frequency prealarm	0-75Hz (<i>55Hz</i>)	
Generator Over frequency shutdown		Generator high frequency shutdown	0-75Hz (<i>57Hz</i>)	
Generator delayed overcurrent		Delayed high current	100-200% (<i>100%</i>)	
Engine		Underspeed (RPM) shutdown	Underspeed shutdown	0-6000RPM (<i>1270</i>)
	Underspeed (RPM) warning	Underspeed prealarm	0-6000RPM (<i>1350</i>)	
	Overspeed (RPM) warning	Overspeed prealarm	0-6000RPM (<i>1650</i>)	
	Overspeed (RPM) shutdown	Overspeed shutdown	0-6000RPM (<i>1710</i>)	
	Overspeed overshoot %	Overspeed overshoot	0-10 (<i>0%</i>)	
	Low DC Voltage	Battery low warning	0-40V (<i>8V</i>)	
	High DC Voltage	Battery high warning	0-40V (<i>33V</i>)	
	Charge Alternator Failure	Charge fail warning	0-39V (<i>6V</i>)	
Display	Language	Language	<i>ENGLISH</i> , OTHER (see note below)	
Application	Engine speed selection	Alternative Frequency	<i>Disable</i> , Enable	
	Volts selection	Alternative Voltage	<i>Disable</i> , Enable	
	Wiring topography	AC System	<i>3 phase 4 wire</i> Single phase, 2 wire 3 phase, 3 wire 2 phase 3 wire (L1 & L2) 2 phase 3 wire (L1 & L3)	
	Full load current rating	Generator Full Load	5A - 6000A (<i>500A</i>)	
	Droop	Droop	<i>Disable</i> , Enable	
	Droop%	Droop%	<i>Compatible engine ECUs only</i>	
	Frequency Adjustment	Frequency Adjustment	<i>Cummins CM850 only</i>	
	LCD Contrast	Contrast	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
	Date/Time	Date and Time	dd mmm yyyy hh:mm	

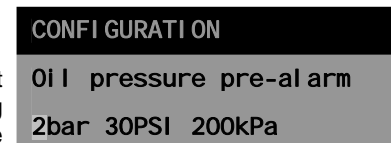
ACCESSING THE FRONT PANEL CONFIGURATION EDITOR

- Press the Stop/Reset and Info buttons simultaneously
- If a module security PIN has been set, the PIN number request is then shown (The first * is flashing) :
- 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 :



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.
- 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 button. Ensure you have saved any changes you have made by pressing the ✓ button first.



NOTE:- When the editor is visible, it is automatically exited after 5 minutes of inactivity to ensure security.

NOTE:- The PIN number is automatically reset when the editor is exited (manually or automatically) to ensure security.

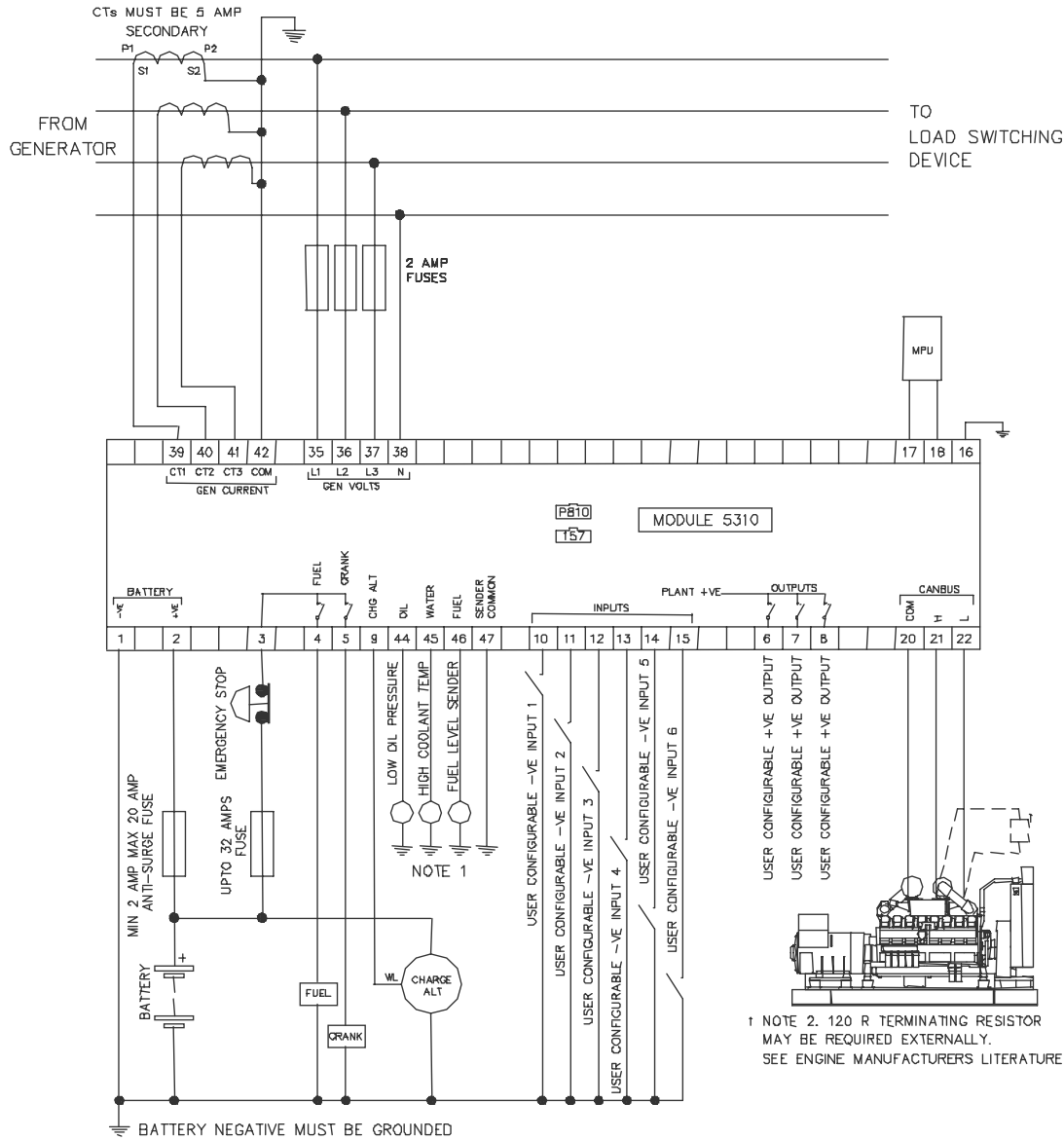
NOTE:- More comprehensive module configuration is possible using the 5xxx series PC configuration software in conjunction with the P810 PC interface. Please contact us for further details.

NOTE:- Front panel language configuration is between English and one other PC configurable language.

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TYPICAL WIRING DIAGRAM



BATTERY NEGATIVE MUST BE GROUNDED

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

TIGHTENING TORQUE = 0.8Nm (7lb-in)

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

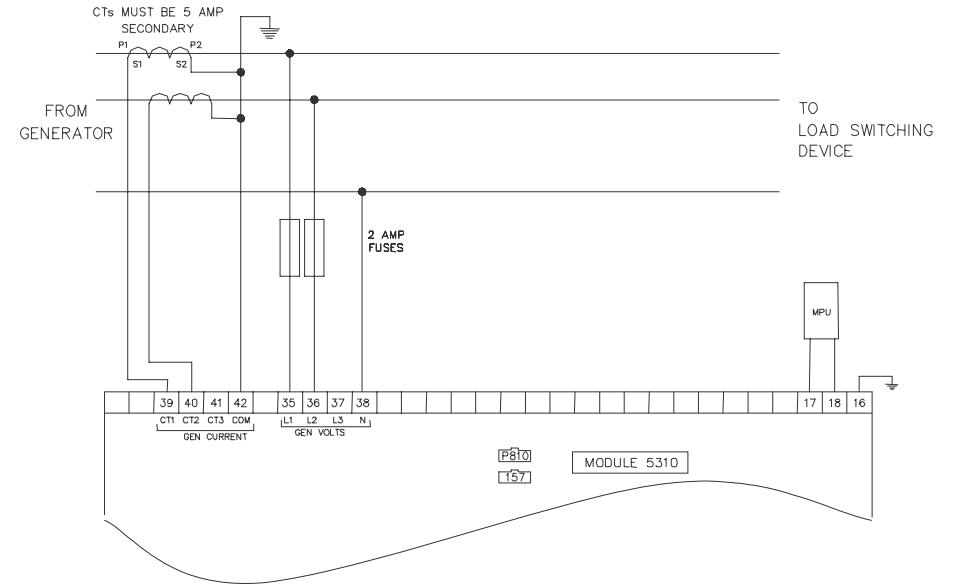
DIMENSIONS

Module dimensions : 240mm x 172mm x 57mm (9.5" x 6.8" x 2.25")

Panel cutout : 220mm x 160m (8.7" x 6.3")

ALTERNATIVE AC WIRING

2 phase, 3 wire (centre tap neutral)



ALTERNATIVE AC WIRING

3 phase, 3 wire

