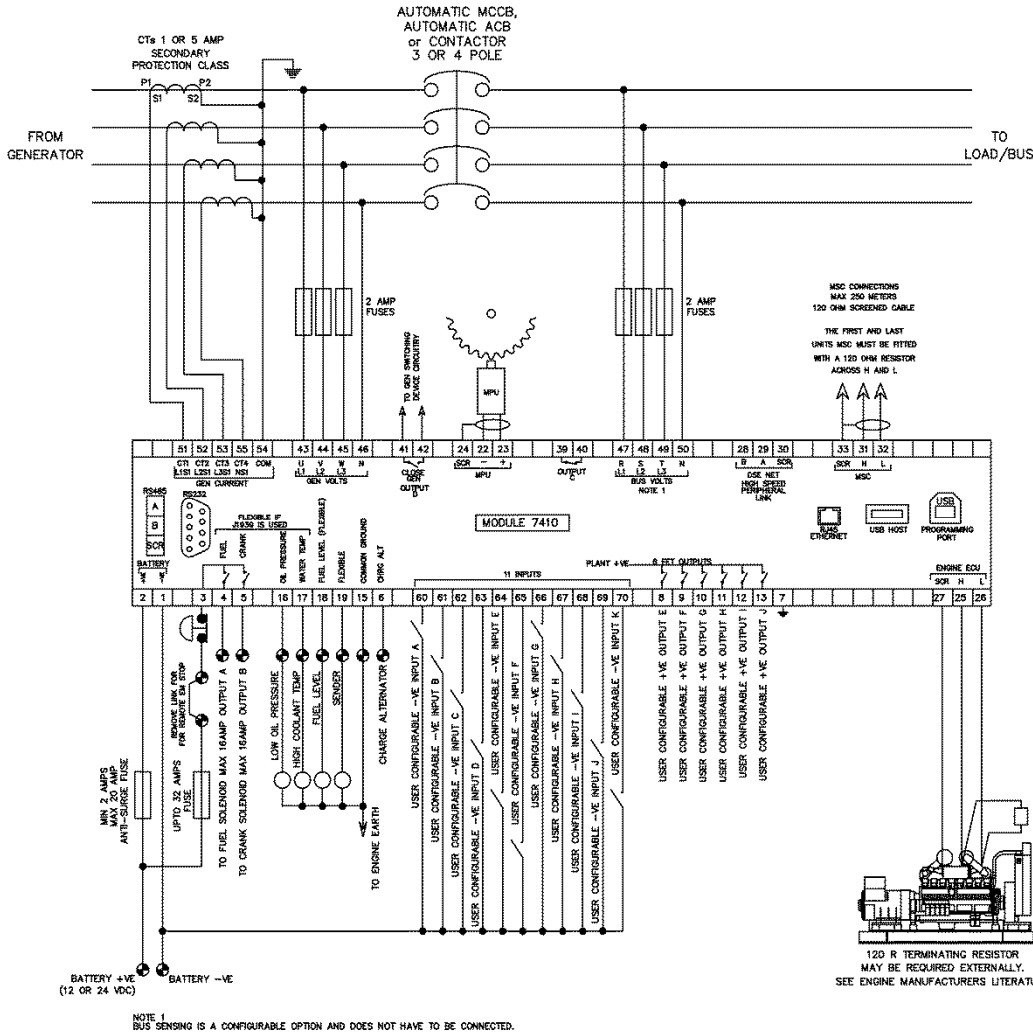


# TYPICAL WIRING DIAGRAM

A larger diagram is available in the operators manual.



## DIMENSIONS AND MOUNTING

For flat surface mounting in a Type 1 enclosure

## DIMENSIONS

240.0mm x 181.1mm x 41.7mm (9.4" x 7.1" x 1.6")

## PANEL CUTOUT:

220mm x 160mm (8.7" x 6.3")

## Deep Sea Electronics Plc.

Tel: +44 (0)1723 890099  
 Fax: +44 (0)1723 893303  
 Email: support@deepseapl.com  
 Web: www.deepseapl.com

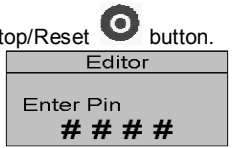
## Deep Sea Electronics inc.

Phone: +1 (815) 316-8706  
 Fax: +1 (815) 316-8708  
 TOLL FREE (USA only) : Tel: 1 866 636 9703  
 Email: dsales@deepseausa.com  
 Web: www.deepseausa.com

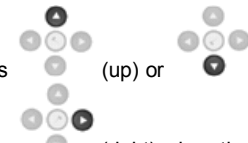


## ACCESSING THE FRONT PANEL CONFIGURATION EDITOR.

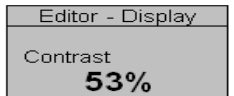
- Ensure the engine is at rest and the module is in STOP mode by pressing the Stop/Reset button.
- Press the Stop/Reset and Info buttons simultaneously.
- If a module security PIN has been set, the PIN number request is then shown:
- Press the button the first digit will flash to enable the pin to be entered.



- Press (up) or (down) to adjust it to the correct value.
- Press (right) when the first digit is correctly entered. The digit you have just entered will now show '#' for security.
- Repeat this process for the other digits of the PIN number. You can press (left) if you need to move back to adjust one of the previous digits.
- When is pressed after editing the final PIN digit, the PIN is checked for validity. If the number is not correct, you must re-enter the PIN.

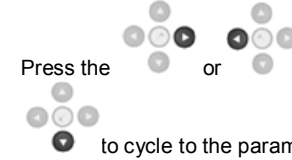


- If the PIN has been successfully entered (or the module PIN has not been enabled), the editor is displayed:



## EDITING A PARAMETER

- Enter the editor as described above.
- Press the or to cycle to the section you wish to view/change. Then press OR to cycle to the parameter within the section you have chosen.
- To edit the parameter, press to enter edit mode. The parameter begins to flash to indicate that you are editing the value.
- Press the up or down buttons to change the parameter to the required value.
- Press to save the value. The parameter ceases flashing to indicate that it has been saved.
- To exit the editor at any time, press and hold the or button.



- 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 86xx series PC configuration software. Please contact us for further details
- NOTE:** The contents of the tables overleaf may differ depending on the actual module configuration.

## ADJUSTABLE PARAMETERS

Front Panel Configuration Editor (Factory default settings are shown in bold italicised text)

Section	Parameter as shown on display	Values	
Display	Contrast	53%	
	Language	English, others.	
Timers	Current Date and Time	hh:mm	
	LCD Page Timer	5m	
	Scroll Delay	2s	
	Engine Pre Heat Timer	0s	
	Engine Crank Duration	10s	
	Engine Crank Rest Time	10s	
	Engine Safety On Delay	10s	
	Engine Smoke Limiting	0s	
	Engine Smoke Limiting Off	0s	
	Engine Warm Up Time	0s	
	Engine Cool Down Time	1m	
	Engine Speed Overshoot Delay	0s	
	Engine Failed To Stop	30s	
	Battery Under Voltage Warning Delay	1m	
	Battery Over Voltage Warning Delay	1m	
	Return Delay	30s	
	Generator Transient Delay	0s	
	Generator	Under Voltage Shutdown	184v
		Under Voltage Pre-Alarm	196v
		Nominal Voltage	230v
Over Voltage Pre-Alarm		265v	
Over Voltage Shutdown		277v	
Under Frequency Shutdown		40Hz	
Under Frequency Pre-Alarm		42Hz	
Nominal frequency		50Hz	
Over Frequency Pre-Alarm		54Hz	
Over Frequency Shutdown		57Hz	
Full Load Rating		500A	
kw Overload Trip		100%	
Delayed Over current		Active	
Delayed Over Current		100%	
AC System		3 Phase 4 Wire	
CT Primary		600A	Power Cycle After Exit
CT Secondary		5A	Power Cycle After Exit
Short Circuit Trip		200%	
Earth CT Primary		500A	
Earth Fault Trip		Active	
Earth Fault Trip		10%	
Transient Delay		0s	
Gen Reverse Power Delay		2s	
Gen Reverse Power		35kw	
Engine		Oil Pressure Low shutdown	1.03bar
		Oil Pressure Low Pre-Alarm	1.24bar
		Coolant Temp High Pre-Alarm	90°C
	Coolant Temp High Electrical Trip	92°C	(When Enabled)
	Coolant Temp High Shutdown	95°C	
	Start Delay Off load	5s	
	Start Delay on load	5s	
	Start Delay Telemetry	5s	
	Pre Heat Timer	0s	
	Crank Duration	10s	
	Crank rest Time	10s	
	Safety On Delay	10s	
	Smoke Limiting	0s	
	Smoke limiting off	0s	
	warm Up Time	0s	
	Cool Down Time	1m	
	Speed overshoot Delay	0s	
	Speed overshoot	0%	
	Fail To Stop Delay	30s	
	Battery Under Volts Warning	Active	
	Battery Under Volts Warning Delay	1m	
	Battery Under Volts Warning	10v	
	Battery Over Volts Warning	Active	
	Battery Over Volts Warning Delay	1m	
	Battery Over Volts Warning	30v	
	Charge Alternator Failure Warning	Active	
	Charge Alternator Failure Warning	6.0v	
	Charge Alternator Warning Delay	5s	
	Charge Alternator Failure Shutdown	Inactive	
Charge Alternator Failure Shutdown	4.0v	(When Enabled)	
Charge Alternator Shutdown Delay	5s	(When Enabled)	
droop %	Active, Inactive. Electronic engines only when droop is enabled.		

## Front Panel Configuration Editor (continued)

Section	Parameter as shown on display	Values
Scheduler	Scheduler	Active, Inactive
	Schedule On Load	Active, Inactive (Only Available When Scheduler Is Active)
	Schedule Period	Weekly, Monthly (Only Available When Scheduler Is Active)
	Schedule Time & date Selection (1-16)	Press  to begin editing then  or  when selecting the different parameters in the scheduler.

## ACCESSING THE 'RUNNING' CONFIGURATION EDITOR

- The 'running' editor can be entered while the engine is running. All protections remain active if the engine is running while the running editor is entered.
- Press and hold the button to enter the running editor.

## ADJUSTABLE PARAMETERS (Running editor)

- Enter the editor as described above.

- Press the up or down buttons to cycle to the section you wish to view/change.

- To Edit the parameter press the button to enter edit mode. The parameter begins to flash to indicate that you are editing the value.

- Press the up or down buttons to change the parameter to the required value.

- Press the button to save the value. The parameter ceases flashing to indicate that it has been saved.

- To exit the editor at any time, press and hold the button.

## Running Editor

Section	Parameter as shown on display	Factory Settings
DISPLAY	Contrast	53%
	Language	English