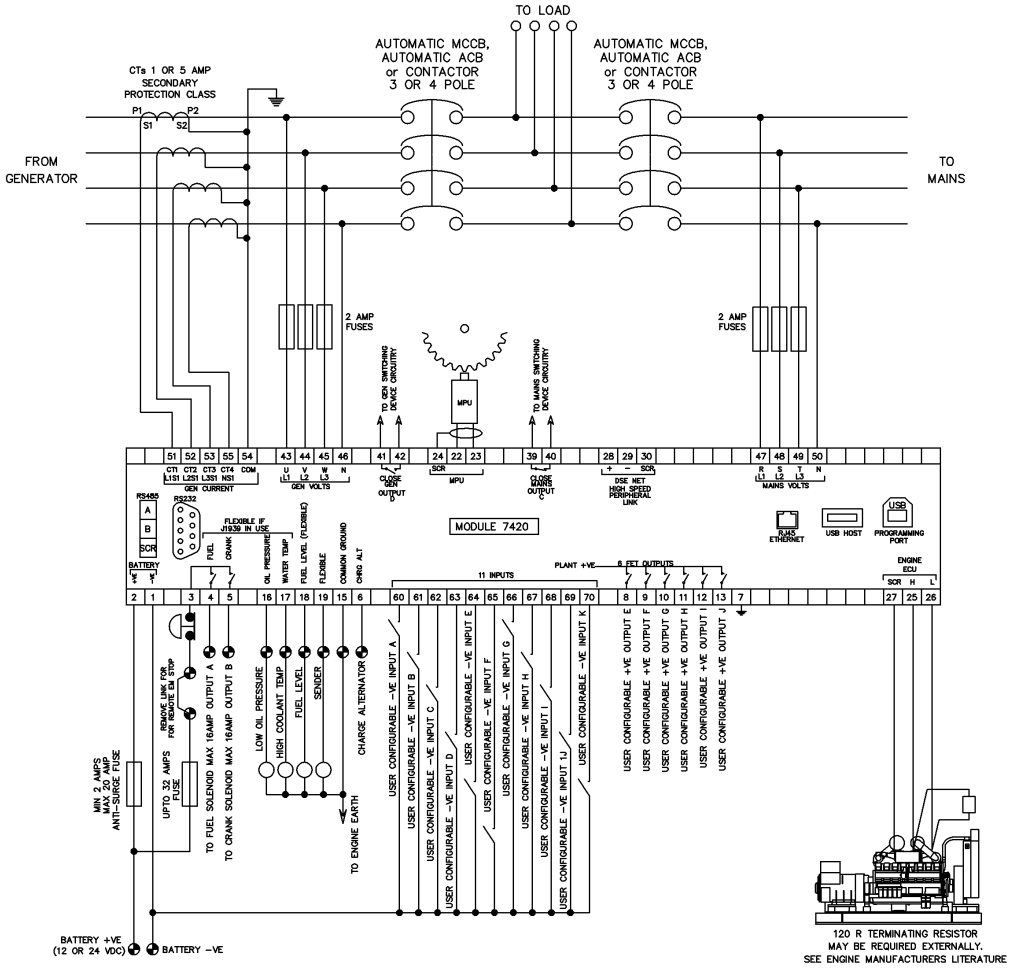
TYPICAL WIRING DIAGRAM

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”)

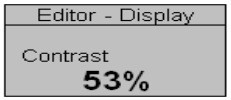
Deep Sea Electronics Plc.
Tel:+44 (0)1723 890099
Fax: +44 (0)1723 893303
Email: support@deepseaplc.com
Web: www.deepseaplc.com

Deep Sea Electronics inc.
Phone: +1 (815) 316-8706
Fax: +1 (815) 316- 8708
TOLL FREE (USA only) : Tel: 1 866 636 9703
Email: dsesales@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

Section	Parameter as shown on display	Values
Display	Contrast	53%
	Language	English, others.
	Current Date and Time	*hh:mm*
Timers	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
	Mains Transient Delay	2s
	Mains transfer time	0.7s
Mains	Mains Under Voltage Alarm	184v
	Mains Over Voltage Alarm	277v
	Mains Under Frequency Alarm	45Hz
	Mains over Frequency Alarm	55Hz
	Mains Transient Delay	2s
	CT Primary	600A
	CT Secondary	5A
	Mains kW Rating	345kW
	Mains kVar Rating	258kW
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

Continued Overleaf

Front Panel Configuration Editor (continued)

Section	Parameter as shown on display	Values
Engine (continued)	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.
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