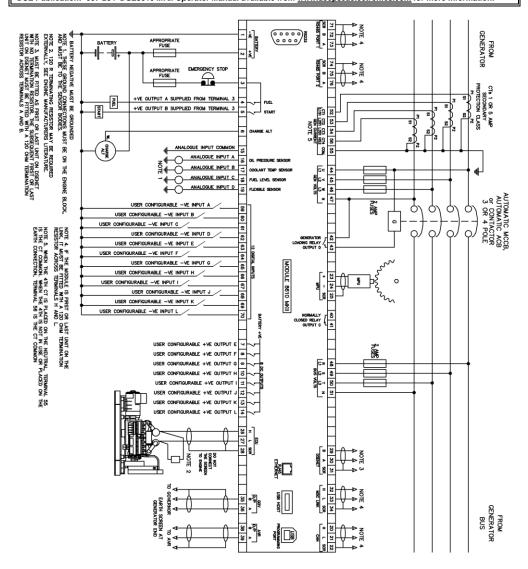
TYPICAL WIRING DIAGRAM

NOTE: A larger version of the Typical Wiring Diagram is available in the product's operator manual, refer to DSE Publication: 057-254 DSE8610 MKII Operator Manual available from www.deepseaelectronics.com for more information.



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DEEP SEA ELECTRONICS



DSE8610 MKII Installation Instructions

053-182 ISSUE 7

ACCESSING THE MAIN CONFIGURATION EDITOR

•	Ensure the engine is at rest and th button.	ne module is in STOP mode by pressing the (Stop/Reset)	Editor
	button.	٥	
		000	Enter Pin
•	Press the (Stop/Reset) and		####
•	If a module security PIN has been	set, the PIN number request is then shown:	т т т т
	The first (#) sharpes to (0) Dress t		arrest value
•	The first '#' changes to '0'. Press t	the O (Up) or O (Down) button to adjust it to the c	orrect value.
	3 00		
•	Press the (Right) button	when the first digit is correctly entered. The digit previously entered	ed now shows '#' for security.
	Describe and the second	O O O	and the selection of the consideration
•	digits.	digits of the PIN number. Press the	ve back to adjust one of the previou
	<u> </u>		
	0 0 0		
•	When the (Tick) button	is pressed after editing the final PIN digit, the PIN is checked for	validity. If the number is not correct
	the PIN must be re-entered.	entered (or the module PIN has not been enabled), the editor is	F. B. B. I
•	displayed:	intered (or the module PIN has not been enabled), the editor is	Editor - Display
			Contrast
ED	ITING A PARAMETER		53%
•	Enter the editor as described above		33 /6
•	Press the (Right) or	(Left) buttons to cycle to the section to view/change.	
	000 00	0	
	Press the U(Up) or		the currently selected section.
	(1),	0	
		3 00	
•	To edit the parameter, press the	(Tick) button to enter edit mode. The parameter begins t	o flash to indicate editing.
		(Down) buttons to change the parameter to the required value	_
•	Press the Up) or Up) or	(Down) buttons to change the parameter to the required value	.
	900		
•	Press the (Tick) button to	o save the value. The parameter ceases flashing to indicate that i	t has been saved.
		000	
	To exit the editor and save the cha		
-	. 5 5 the canor and dave the old	(Tion) button	
_	To avit the aditor and not save the	shanges areas and hold the	

NOTE: If the editor is left inactive for the duration of the LCD Page Timer, it is automatically exited to ensure security.

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

NOTE: Comprehensive module configuration is possible using the DSE Configuration Suite PC Software, refer to DSE publication 057-238 DSE8610 MKII Configuration Suite PC Software Manual available from www.deepseaelectronics.com.

NOTE: Depending upon module configuration, some parameters in the Main and Running Editors may not be available. For more information refer to DSE publication 057-238 DSE8610 MKII Configuration Suite PC Software Manual available from www.deepseaelectronics.com

MAIN CONFIGURATION EDITOR PARAMETERS Section Parameter As Shown On Display Values

Section	Parameter As Shown On Display	Values
Display	Contrast	0%
	Language	English, Other.
	Current Date and Time	DD:MM:YY, hh:mm:ss
Alt Config	Default Config	Default Config / Alternative Config
Engine	Oil Pressure Low Shutdown	0.00 bar
•	Oil Pressure Low Pre Alarm	0.00 bar
	Coolant Temperature Low Warning	0 °C
	Coolant Temp High Pre Alarm	0 °C
	Coolant Temp High Shutdown	0 °C
	Start Delay Off Load	0 h 0 m 0 s
	Start Delay On Load	0 h 0 m 0 s
	Start Delay Telemetry	0 h 0 m 0 s
	Pre Heat Temp	0 °C
	Pre Heat Timer	0 h 0 m 0 s
		0 °C
	Post Heat Temp	
	Post Heat Timer	0 h 0 m 0 s
	Cranking	0 m 0 s
	Cranking Rest	0 m 0 s
	Safety On Delay	0 m 0 s
	Warming at Idle (Idle Running)	0 m 0 s
	Idle Ramp Up (Idle Running)	0 m 0 s
	Smoke Limiting	0 m 0 s
	Smoke Limiting Off	0 m 0 s
	Warming	0 h 0 m 0 s
	Cooling	0 h 0 m 0 s
	Under Speed Shutdown	Active / Inactive
	Under Speed Shutdown	0 RPM
	Under Speed Warning	Active / Inactive
	Under Speed Warning	0 RPM
	Over Speed Warning	Active / Inactive
	Over Speed Warning	0 RPM
	Over Speed Shutdown	0 RPM
	Overspeed Overshoot	0 m 0 s
	Overspeed Overshoot	0 %
	Fail To Stop Delay	0 m 0 s
	Battery Under Voltage Warning	Active / Inactive
	Battery Under Voltage Warning Delay	0 h 0 m 0 s
	Battery Under Voltage Warning Delay	0.0 V
		Active / Inactive
	Battery Over Voltage Warning	
	Battery Over Voltage Warning Delay	0 h 0 m 0 s
	Battery Over Voltage Warning	0.0 V
	Charge Alternator Failure Warning	Active / Inactive
	Charge Alternator Failure Warning	0.0 V
	Charge Alternator Warning Delay	0 h 0 m 0 s
	Charge Alternator Failure Shutdown	Active / Inactive
	Charge Alternator Failure Shutdown	0.0 V
	Charge Alternator Shutdown Delay	0 h 0 m 0 s
	Droop	Active / Inactive
	Droop	0 %
	Fuel Usage Running Rate	0 %
	Fuel Usage Stopped Rate	0 %
	DPF Auto Regen Inhibit	Active / Inactive
	Specific Gravity	0.80 to 1.00
	CAN Termination	Active / Inactive
Generator	Under Voltage Shutdown	0 V
	Under Voltage Pre-Alarm	0 V
	Loading Voltage	0 V
	Nominal Voltage	0 V
	Over Voltage Pre-Alarm	0 V
	Over Voltage Shutdown	0 V
	Under Frequency Shutdown	0.0 Hz
	Under Frequency Pre-Alarm	0.0 Hz
	Loading Frequency	0.0 Hz
		0.0 Hz
	Nominal Frequency	
	Over Frequency Pre-Alarm	0.0 Hz
	Over Frequency Shutdown	0.0 Hz

MAIN CONFIGURATION EDITOR PARAMETERS (CONTINUED)

	NFIGURATION EDITOR PAR	
Section Generator	Parameter As Shown On Display Full Load Rating	Values 0 A
(Continued)		0%
(Continued)	Delayed Over Current	Active / Inactive
1	Gen Over Current Trip	0 %
1	AC System	3 Phase, 4 Wire
1	CT Primary	0 A Power Cycle After Exit
Ī	CT Secondary	0 A Power Cycle After Exit
1	Short Circuit Trip	0 %
1	Earth CT Primary	0 A
1	Earth Fault Trip	Active / Inactive
1	Earth Fault Trip	0 %
Ī	Transient Delay	0.0 s
1	Gen Reverse Power Delay	0.0 s
	Full kW Rating	0 kW
	Full kVAr Rating	0 kvar
1	Ramp Up Rate	0 %
Ī	Ramp Down Rate	0 %
Ī	Load Level For More Sets	0 %
1	Load Level For Less Sets	0 %
Ī	Load Demand Priority	1
1	Gen Reverse Power Trip	0 kW
1	Insufficient Capacity Delay	0 m 0 s
1	Insufficient Capacity Action	None / Indication / Warning /
1		Shutdown / Electrical Trip None / var Share / var Fixed
1	Reactive Load CTL Mode	Export Snare / Var Fixed
1	Load Parallel Power	0 kW In Mains Parallel Mode
1	Load Power Factor	0 % In Mains Parallel Mode
Ī	Enable MSC Compatibility	Active / Inactive
Comms	RS232 Port Baud Rate	115200
	RS232 Port Slave ID	10
1	RS485 Port Baud Rate	115200
Ī	RS485 Port Slave ID	10
Timers	LCD Page Timer	0 h 0 m 0 s
Ī	Scroll Delay	0 h 0 m 0 s
1	Engine Pre Heat Timer	0 h 0 m 0 s
1	Engine Post Heat Timer	0 h 0 m 0 s
1	Engine Cranking	0 m 0 s
Ī	Engine Cranking Rest	0 m 0 s
Ī	Engine Safety On Delay	0 m 0 s
1	Engine Warming Up at Idle	0 m 0 s
Ī	Engine Idle Ramp Up	0 m 0 s
Ī	Engine Smoke Limiting	0 m 0 s
1	Engine Smoke Limiting Off	0 m 0 s
Ī	Engine Warming	0 h 0 m 0 s
1	Engine Cooling	0 h 0 m 0 s
Ī	Engine Overspeed Overshoot	0 m 0 s
1	Engine Fail To Stop Delay Battery Under Voltage Warning Delay	0 h 0 m 0 s
Ī	Battery Over Voltage Warning Delay	0 h 0 m 0 s
1	Return Delay	0 h 0 m 0 s
Ī	Generator Transient Delay	0 s
Schedule	Schedule	Active / Inactive
Concadio	Schedule Bank 1 Period	Weekly / Monthly,
11		
	On Load / Off Load / Auto Stort	
	On Load / Off Load / Auto Start	Press to begin editing then up
	Inhibit, Week, Start Time, Run Time	or down when selecting the
	Inhibit, Week, Start Time, Run Time and Day. Selection (1 to 8)	or down when selecting the different parameters.
	Inhibit, Week, Start Time, Run Time and Day. Selection (1 to 8) Schedule Bank 2 Period	or down when selecting the different parameters. Weekly / Monthly,
	Inhibit, Week, Start Time, Run Time and Day. Selection (1 to 8) Schedule Bank 2 Period On Load / Off Load / Auto Start	or down when selecting the different parameters. Weekly / Monthly, Press to begin editing then up
	Inhibit, Week, Start Time, Run Time and Day. Selection (1 to 8) Schedule Bank 2 Period	or down when selecting the different parameters. Weekly / Monthly,

DIMENSIONS AND MOUNTING

Parameter	Specification
Dimensions	245 mm X 184 mm X 51 mm (9.6" X 7.2" X 2.0")
Panel Cut-out	220 mm X 160 mm (8.7" X 6.3")
Weight	0.98 kg (2.16 lb)
Operating Temp with Standard Display	-30 °C to +70 °C (-22 °F to +158 °F)
Operating Temp with Heated Display	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +80 °C (-40 °F to +176 °F)

ACCESSING THE 'RUNNING' CONFIGURATION EDITOR

The 'Running' Configuration Editor is enterable without stopping the engine. All protections remain active whilst using the 'Running' Configuration Editor.



RUNNING CONFIGURATION EDITOR PARAMETERS

Section	Parameter As Shown On Display	Values
Display	Contrast	0 %
	Language	English, Other
	Load Demand Priority	1
	Commissioning Screens	Active / Inactive
	Override Starting Alarms	Active / Inactive
	Voltage Adjust (manual mode only, breaker open)	0 %
	Frequency Adjust (manual mode only, breaker open)	0 %
	Mains Decoupling Test Mode	Active / Inactive
	Voltage and Frequency Injection	Active / Inactive
	Testing	(Remains active for 3 minutes)
Engine	Governor Gain	0.0
	Frequency Adjust Offset	0.0 Hz
	DPF Auto Regen Inhibit	Active / Inactive
	DPF Manual Regen	Active / Inactive
Power Levels	Power Control Mode	Constant Power / Frequency- Power / Voltage-Power
	kVAr Control Mode	Constant Power Factor / Voltage- Reactive Power / Power-Power Factor / Constant Reactive Power
	Load Parallel Power	0 %
	Load Parallel kVAr	0 %
	Load Parallel PF	0.00 pf
	Frequency Droop Offset	0.00 % (0.00 Hz)
	Freq. Droop Ramp Rate	0.0 %
	Voltage Droop Offset	0.00 % (0.0 V)
	Voltage Droop Ramp Rate	0.0 %

REQUIREMENTS FOR UL CERTIFICATION

WARNING!: More than one live circuit exists, see diagram overleaf for further information.

Specification	Description
Screw Terminal Tightening Torque	• 4.5 lb-in (0.5 Nm)
Conductors	Terminals suitable for connection of conductor size 13 AWG to 20 AWG (0.5 mm² to 2.5 mm²). Conductor protection must be provided in accordance with NFPA 70, Article 240 Low voltage circuits (35 V or less) must be supplied from the engine starting battery or an isolated secondary circuit. The communication, sensor, and/or battery derived circuit conductors shall be separated and secured to maintain at least ¼" (6 mm) separation from the generator and mains connected circuit conductors unless all conductors are rated 600 V or greater.
Current Inputs	Must be connected through UL Listed or recognized isolating current transformers with the secondary rating of 5 A max.
Communication Circuits	Must be connected to communication circuits of UL Listed equipment
DC Output Pilot Duty	• 0.5 A
Mounting	Suitable for flat surface mounting in Type 1 Enclosure Type rating with surrounding air temperature -22 °F to +122 °F (-30 °C to +50 °C) Suitable for pollution degree 3 environments when voltage sensing inputs do not exceed 300 V. When used to monitor voltages over 300 V device to be installed in an unventilated or filtered ventilation enclosure to maintain a pollution degree 2 environment.
Max. Operating Temperature	• 122 °F (50 °C)