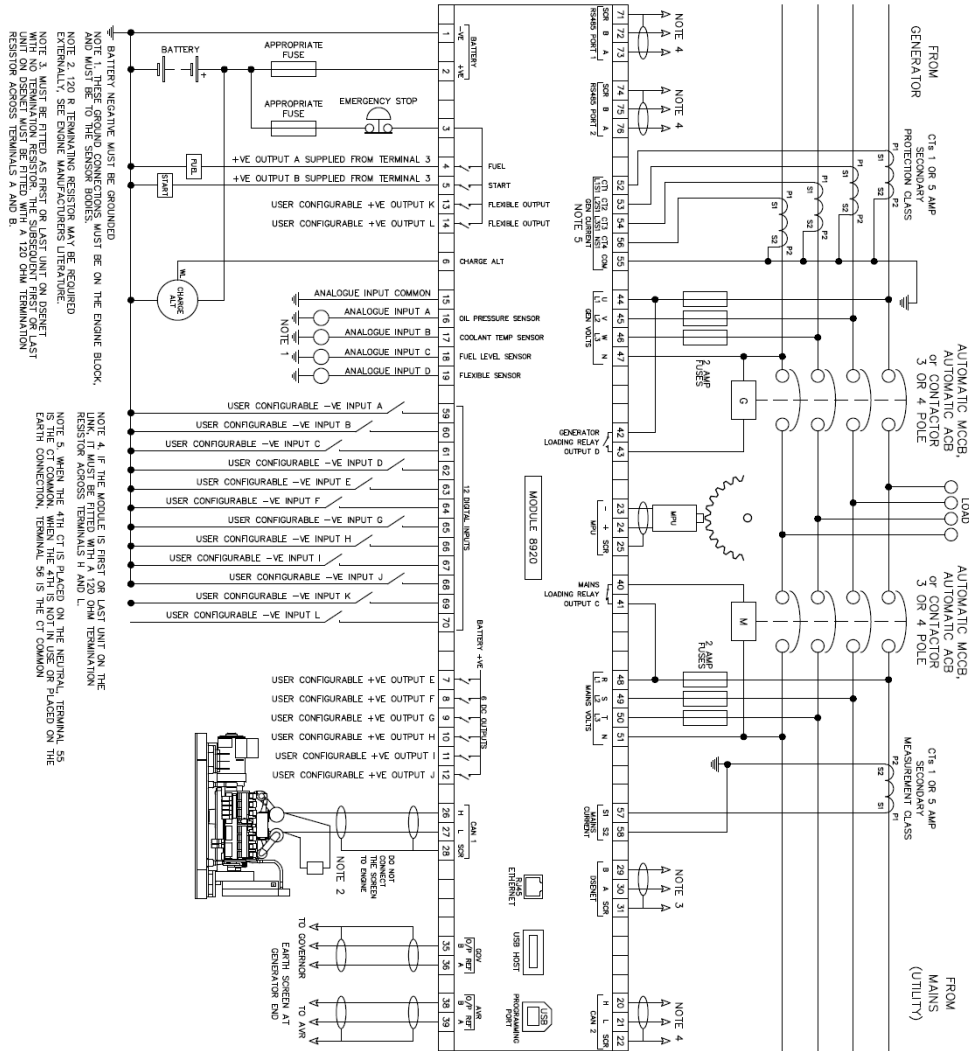


TYPICAL WIRING DIAGRAM

NOTE: Larger versions of the *Typical Wiring Diagrams* are available in the products' operator manuals, refer to DSE Publication: *057-310 DSE8910 Operator Manual & 057-311 DSE8920 Operator Manual*, both available from www.deepseaelectronics.com.



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DEEP SEA ELECTRONICS
DSE8910 & DSE8920 Installation Instructions

053-248
 ISSUE: 2

ACCESSING THE MAIN CONFIGURATION EDITOR

NOTE: The available parameters within the *Main Configuration Editor* differ depending if the DSE8910 or DSE8920 software application is selected. For a list of available configuration parameters, refer to DSE Publication: *057-310 DSE8910 Operator Manual & 057-311 DSE8920 Operator Manual*, both available from www.deepseaelectronics.com.

- Ensure the engine is at rest and the module by pressing the **Stop/Reset Mode** button.
- Press the **Stop/Reset Mode** and **Tick** buttons together to enter the main configuration editor.
- If a module security PIN has been set, the PIN request is then shown.
- Press the **Tick** button, the first '#' changes to '0'. Press the **Up** or **Down** buttons to adjust it to the correct value.
- Press the **Right** button when the first digit is correctly entered. The digit previously entered now shows as '#' for security.
- Repeat this process for the other digits of the PIN number. Press the **Left** button to move back to adjust one of the previous digits.
- 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.
- If the PIN has been successfully entered (or the module PIN has not been enabled), the editor is displayed.



ACCESSING THE RUNNING CONFIGURATION EDITOR

- The *Running Configuration Editor* is accessible without stopping the generator. All protections remain active whilst the *Running Configuration Editor* is accessed.
- Press and hold the **Tick** button to enter the *Running Configuration Editor*.

EDITING A PARAMETER

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

- Enter either editor as described above.
- Press the **Up** or **Down** buttons to select the section to view/change. The current selected section highlights in green.
- Press the **Left** or **Right** buttons to select the Subsection/Parameter to be edited. The current selected item highlights in green.
- To edit the parameter, press the **Tick** button to enter the edit mode. The parameter is no longer highlighted green to indicate editing.
- Press the **Up** or **Down** buttons to change the parameter to the required value.
- Press the **Tick** button to save the value. The parameter highlights green to indicate that it has been saved.
- To exit the editor and save the changes, press and hold the **Tick** button.

SELECTING THE DSE8910 OR DSE8920 SOFTWARE APPLICATION

- Ensure the generator is at rest and the module by pressing the **Stop/Reset Mode** button.
- Enter the *Running Configuration Editor* as described above.
- Press the **Up** or **Down** buttons to navigate to the *MODEL TYPE* section. The section highlights in green when selected.
- Press the **Right** button to select the *MODEL SELECTION* parameter. The parameter highlights in green when selected.
- To edit the parameter, press the **Tick** button to enter the edit mode. The parameter is no longer highlighted green to indicate editing.
- Press the **Up** or **Down** buttons to change between DSE8910 and DSE8920, by default DSE8920 is selected.
- Press the **Tick** button to change the software application, a confirmation box appears.
- Press the **Left** or **Right** buttons to select **YES** to confirm software application change. When prompted, remove the power supply to the module and then reapply the power supply. The module powers up in the newly selected software application.

RUNNING CONFIGURATION EDITOR PARAMETERS

Section	Sub Section	Parameter	Value	
Display	Model Type	Model Selection	8910 / 8920	
		Backlight	Backlight Level	0 %
		Language	Lang File Selection	English
		Run Load Priority	Load Priority (DSE8910 Only)	1 to 32
	Screen Selection	Home Selection	DSE8910: Home / Engine / Generator / Bus / I/O / PLC / Status DSE8920: Home / Engine / Generator / Mains / I/O / PLC / Status	
		Commissioning Screen	Enable / Disable	
		Tier 4 Screen	Enable / Disable	
		Display Options	Page Timer	0 m 0 s
		Graphics	Bars / Meters	Bar Selection
	Options	Starting Alarms	Enable / Disable	
		Mains Decoupling Test Mode	Enable / Disable	
		External Alarm Alert	Enable / Disable	
	Adjustments	Frequency Adjust	0 %	
		Voltage Adjust	0 %	
	Units	Pressure	kPa / Bar / PSI	
		Temperature	°C / °F	
		Volume	Litres / Imp Gal / US Gal	
	Logging		Safe Removal	Edit Up to Remove
	Engine		Governor Gain	0.0 %
			Frequency Adjust Offset	0.0 %
		DPF Auto Inhibit	Enable / Disable	
		DPF Manual Regen	Enable / Disable	
Power Levels	Control Mode	Power Control Mode	Const Power / Frequency Power / Voltage Power	
		kVAR Control Mode	Const Reactive / Voltage-Reactive Power / Power-Power Factor	
Mains (DSE8920 only)		Mains Stability Timer	0 s	
		Out of Sync	Enable / Disable	
		Sequence Alarm Reset	Enable / Disable	

REQUIREMENTS FOR UL CERTIFICATION

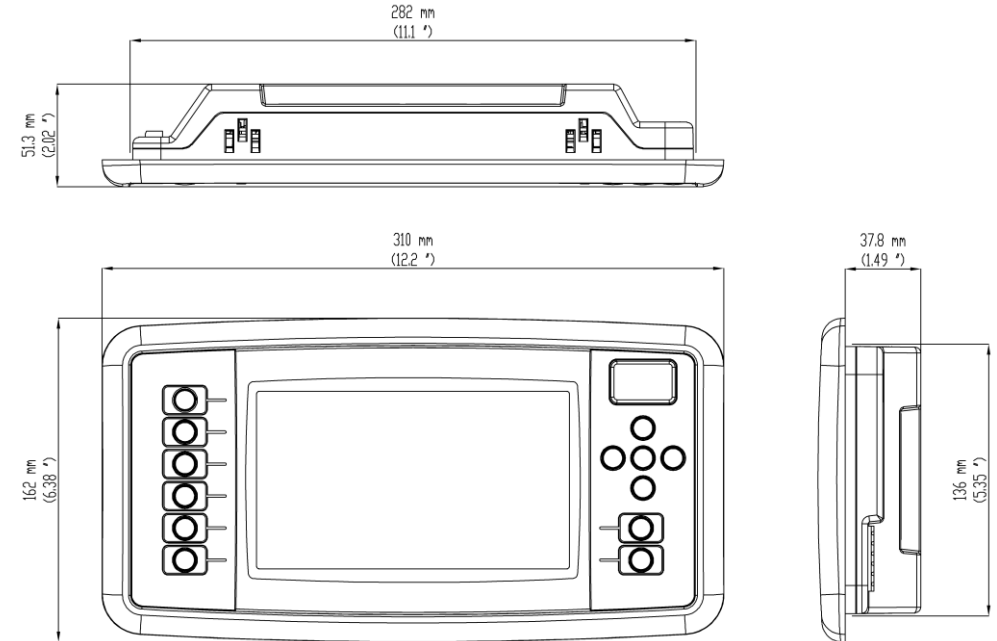
WARNING: More than one live circuit exists, see diagram overleaf for further information.

ATTENTION: Il existe plusieurs circuits sous tension. Voir le schéma au verso pour plus d'informations.

Specification	Description
Screw Terminal Tightening Torque	• 4.5 lb-in (0.5 Nm)
Conductors	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
Operating Temperature	• -22 °F to +122 °F (-30 °C to +50 °C)

DIMENSIONS AND MOUNTING

Parameter	Specification
Dimensions	310 mm X 162 mm X 51.3 mm (12.2" X 6.38" X 2.02")
Panel Cutout	282 mm X 136 mm (11.10" X 5.35")
Weight	1.19 kg (2.62 lb)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +80 °C (-40 °F to +176 °F)
Minimum Cable Size	0.5 mm ² (AWG 20)
Maximum Cable Size	2.5 mm ² (AWG 13)
Screw Terminal Tightening Torque	0.5 Nm (4.5 lb-in)
Wire Strip Length	7 mm (9/32")



PANEL FASCIA FIXING CLIPS

NOTE: In conditions of excessive vibration, mount the module on suitable anti-vibration mountings.

The module is held into the panel fascia using the supplied fixing clips:

- Withdraw the fixing clip screw (turn anticlockwise) until only the pointed end is protruding from the clip.
- Insert the three 'prongs' of the fixing clip into the slots in the side of the module case.
- Pull the fixing clip backwards (towards the back of the module) ensuring all three prongs of the clip are inside their allotted slots.
- Turn the fixing clip screws clockwise until they make contact with the panel fascia.
- Turn the screw a quarter of a turn to secure the module into the panel fascia. Care must be taken not to over tighten the fixing clip screws.