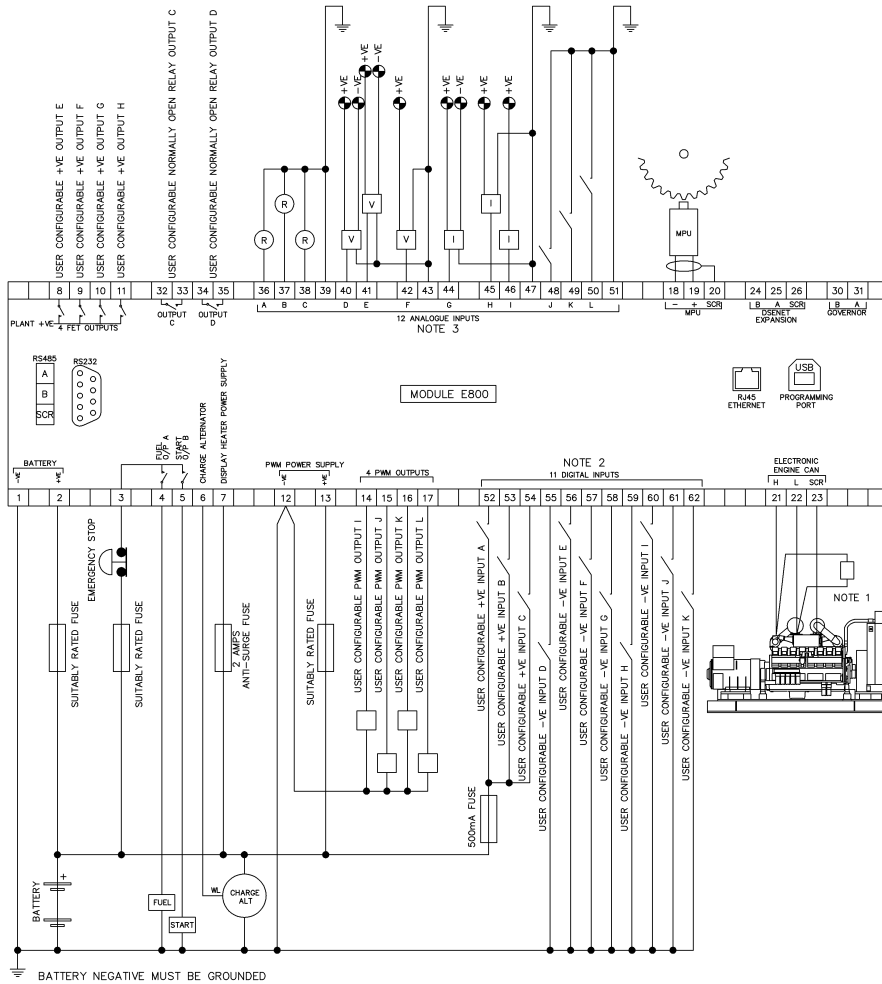


# TYPICAL WIRING DIAGRAM



NOTE 1  
120 R TERMINATING RESISTOR MAY BE REQUIRED EXTERNALLY  
SEE ENGINE MANUFACTURERS LITERATURE

NOTE 2  
DIGITAL INPUTS CAN BE CONFIGURED AS EITHER +VE OR -VE,  
PROGRAMMABLE IN BANKS OF 3.

NOTE 3  
ANALOGUE INPUTS CAN BE CONFIGURED AS EITHER A DIGITAL INPUT, RESISTIVE INPUT, 0-10V INPUT, 4-20mA INPUT  
OR ANY COMBINATION OF THE ABOVE

WIRED AS RESISTIVE	WIRED AS 0-10V(TYPE 1)	WIRED AS 0-10V(TYPE 2)	WIRED AS 4-20mA (SELF POWERED TYPE 1)	WIRED AS 4-20mA (SELF POWERED TYPE 2)	WIRED AS 4-20mA (LOOP POWERED)	WIRED AS DIGITAL
A,B&C	D&E	F	G	H	I	J,K&L

**NOTE: To meet UL requirements, fuse the module supply at 167% of supply current.**

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# DEEP SEA ELECTRONICS

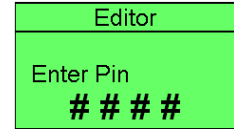
## DSEE800 Installation Instructions

053-090  
ISSUE 3

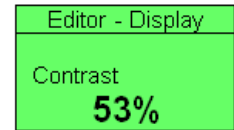
### ACCESSING THE MAIN CONFIGURATION EDITOR

- Ensure the engine is at rest and the module is in STOP mode by pressing the (Stop/Reset) button.

- Press the (Stop/Reset) and (Tick) buttons simultaneously.
- If a module security PIN has been set, the PIN number request is then shown:



- The first '#' changes to '0'. Press the (Up) or (Down) button to adjust it to the correct value.
- Press the (Right) button when the first digit is correctly entered. The digit previously entered now shows '#' 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:



### EDITING A PARAMETER

- Enter the editor as described above.
- Press the (Right) or (Left) buttons to cycle to the section to view/change.
- Press the (Up) or (Down) buttons to select the parameter to view/change within the currently selected section.
- To edit the parameter, press the (Tick) button to enter edit mode. The parameter begins to flash 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 ceases flashing to indicate that it has been saved.
- To exit the editor and save the changes, press and hold the (Tick) button.
- To exit the editor and not save the changes, press and hold the (Stop/Reset) button.

**NOTE: The editor is 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 DSE Configuration Suite PC Software, refer to DSE publication 057-203 DSEE800 Configuration Suite PC Software Manual.**

## FRONT PANEL EDITOR PARAMETERS

Section	Parameter As Shown On Display	Value
Display	Contrast	0 %
	Backlight Level	0 %
	Language	English
	Current Date and Time	Day:month:year, hour:minute:seconds
Engine	Oil Pressure Low Shutdown (When Enabled)	0.00 bar, kPa, psi
	Oil Pressure Low Pre Alarm (When Enabled)	0.00 bar, kPa, psi
	Coolant Temperature High Pre Alarm (When Enabled)	0 °C, °F
	Coolant Temp High Controlled Shutdown (When Enabled)	0 °C, °F
	Coolant Temperature High Shutdown (When Enabled)	0 °C, °F
	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 Temperature (When Enabled)	0 °C, °F
	Pre Heat Timer	0 h 0 m 0 s
	Post Heat Temperature (When Enabled)	0 °C, °F
	Post Heat Timer	0 h 0 m 0 s
	Cranking	0 m 0 s
	Crank Rest	0 m 0 s
	Safety On Delay	0 m 0 s
	Smoke Limiting	0 m 0 s
	Smoke Limiting Off	0 m 0 s
	Warming	0 m 0 s
	Cool Down Time	0 h 0 m 0 s
	Under Speed Shutdown	Active / Inactive
	Under Speed Shutdown (When Enabled)	0 rpm
	Under Speed Warning	Active / Inactive
	Under Speed Warning (When Enabled)	0 rpm
	Over Speed Warning	Active / Inactive
	Over Speed Warning (When Enabled)	0 rpm
	Over Speed Shutdown	0 rpm
	Speed Overshoot Delay	0 m 0 s
	Speed Overshoot	0 %
	Fail To Stop Delay	0 m 0 s
	Battery Under Voltage Warning	Active / Inactive
	Battery Under Voltage Warning Delay (When Enabled)	0 h 0 m 0 s
	Battery Under Voltage Warning	0 V
	Battery Over Voltage Warning	Active / Inactive
	Battery Over Voltage Warning Delay (When Enabled)	0 h 0 m 0 s
	Battery Over Voltage Warning	0 V
	Charge Alternator Failure Warning	Active, Inactive
	Charge Alternator Warning Delay (When Enabled)	0 h 0 m 0 s
	Charge Alternator Failure Warning	0.0 V
	Charge Alternator Failure Shutdown	Active / Inactive
	Charge Alternator Shutdown Delay (When Enabled)	0 h 0 m 0 s
	Charge Alternator Failure Shutdown (When Enabled)	0.0 V
	Priming Delay	0 s
	Clutch Engage Speed	0 rpm
	Clutch Disengage Speed	0 rpm
	Idle Speed	0 rpm
	Warming Speed	0 rpm
	Cooldown Speed	0 rpm
	Starting	0 rpm
	Priming Speed	0 rpm
	Min Speed	0 rpm
Default Speed	0 rpm	
Max Speed	0 rpm	
Reset Default Speed on Start-up	Active / Inactive	
Cooling at Idle	0 h 0 m 0 s	

## FRONT PANEL EDITOR PARAMETERS (CONTINUED)

Section	Parameter As Shown On Display	Value
Engine (continued)	Delayed Engine Start	0 h 0 m 0 s
	Delayed Engine Stop	0 h 0 m 0 s
	Engine Speed Transient Delay	0.0 s
	Selectable Speed Transfer Time	0 m 0.0 s
Timers	LCD Page Timer	0 h 0 m 0 s
	Scroll Delay	0 h 0 m 0 s
	Engine Pre Heat Timer (When Enabled)	0 m 0 s
	Engine Cranking	0 m 0 s
	Cranking Rest	0 m 0 s
	Safety On Delay	0 m 0 s
	Smoke Limiting	0 m 0 s
	Smoke Limiting Off	0 m 0 s
	Engine Warming	0 h 0 m 0 s
	Engine Cooling	0 h 0 m 0 s
	Engine Overspeed Overshoot	0 m 0 s
	Engine Fail To Stop Delay	0 m 0 s
	Battery Under Voltage Warning Delay	0 h 0 m 0 s
	Battery Over Voltage Warning Delay	0 h 0 m 0 s
	Return Delay	0 h 0 m 0 s
	DPF Ramp*	0 s
	Schedule	Schedule
Schedule Bank Period		Weekly / Monthly
	On Load / Off Load / Auto Start Inhibit, Week, Start Time, Run Time and Day Selection (1-8)	Press  to begin editing then up or down when selecting the different parameters.
Active Config Select	Main Configuration	
	Alternative Config 1	Press  to begin editing then up or down when selecting the different configurations
	Alternative Config 2	
	Alternative Config 3	
	Alternative Config 4	

\*Electronic Engines Only

## 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 screws a little more to secure the module into the panel fascia. Care should be taken not to over tighten the fixing clip screws

## 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 mm <sup>2</sup> to 2.5 mm <sup>2</sup> ). • 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.
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.

## 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 (Tick) button to enter the running editor.

## RUNNING CONFIGURATION EDITOR PARAMETERS

Section	Parameter As Shown On Display	Values
Display	Contrast	0 %
	Backlight Level	0 %
	Language	English
Engine	DPF Auto Regen Inhibit	Active / Inactive
	DPF Manual Regen	Active / Inactive
	DPF Manual Regen Cancel	Active / Inactive

## DIMENSIONS AND MOUNTING

### DIMENSIONS

240.0 mm x 181.1 mm x 42. mm  
(9.4" x 7.1" x 1.6")

### WEIGHT

0.7 kg  
(1.4 lb)

### PANEL CUTOUT

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

### TEMPERATURE

**Operating:** -40 °C to +70 °C  
(-40 °F to +158 °F)

**Storage:** -40 °C to +80 °C  
(-40 °F to +176 °F)

