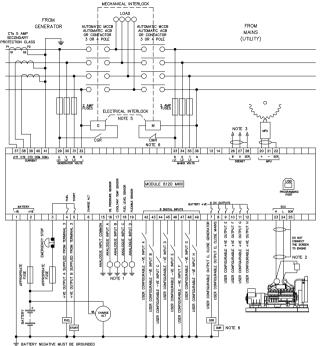
NOTE: A larger version of the typical wiring diagram is included in the product's operator manual, Refer to DSE Publication: 057-289 DSE6110 MKIII & DSE6120 MKIII Operator Manual available from www.deepseaelectronics.com.

NOTE: Terminals 33, 34, 35 and 36 are not fitted to the DSE6110 MKIII.



- NOTE 1. THESE GROUND CONNECTIONS MUST BE ON THE ENGINE BLOCK, AND MUST BE TO THE SENSOR BODIES. TNOTE 2. 120 R TERMINATING RESISTOR MAY BE REQUIRED EXTERNALLY, SEE ENGINE MANUFACTURERS LITERATURE,

NOTE 5. IT IS RECOMMENDED THAT THE GENERATOR AND MAINS SWITCHGEAR ARE MECHANICALLY AND ELECTRICALLY INTERLOCKED.

DIMENSIONS AND MOUNTING

Parameter	Specification
Dimensions	216 mm x 158 mm x 43 mm (8.5" x 6.2" x 1.5")
Panel Cutout	184 mm X 137 mm (7.2" X 5.3")
Weight	0.5 kg (1.1 lb)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)

OUTPUT SOURCES CONTINUED

Outp	Output Sources Continued				
63	DPF Forced Regen Requested	140	Lamp Test	217	System In Auto Mode
64	DPF Non Mission	141	Load Freq Not Reached	218	System In Man Mode
65	DPF Regen Active	142	Load Volts Not Reached	219	System In Stop Mode
66	DPF Regen Interlock	143	Loss Of MPU Signal	220	System In Test Mode
67	DPTC Filter	144	Louvre Control	221	Telemetry Active
68	Droop Enable	145	Low Coolant Temp	222	Telemetry Data Active
69	ECU (ECM) Data Fail	146	Low Load	223	Temp Sensor OC
70	ECU (ECM) Power	147	Low Oil Pressure Sdn	224	Low Freq Alarm
71	ECU (ECM) Shutdown	148	Low Oil Pressure Wng	225	Low Freq Warning
72	ECU (ECM) Stop	149	Main Config Selected	226	Low Speed Alarm
73	ECU (ECM) Warning	150	Mains Closed Aux	227	Low Speed Warning
74	ECU Pre-Heat	151	Mains Failure	228	Wait For Man Restore
75	EJP 1	152	Mains High Freq	229	Water in Fuel
76	EJP 2	153	Mains High Volts		<u> </u>

OUTPUT SOURCES

5 RESERVED 82 Fan Control 459 Maintenance Alarm 2 Due 6 RESERVED 83 Flex Sensor A High Alarm 160 Maintenance Alarm 3 Due 7 RESERVED 85 Flex Sensor A High Pre-Alm 161 Manual Restore Contact 8 RESERVED 85 Flex Sensor A Low Alarm 162 MPU Open Circuit 9 Analogue Input A 86 Flex Sensor A Low Pre-Alm 163 RESERVED 10 Analogue Input B 87 Flex Sensor A Low Pre-Alm 163 RESERVED 11 Analogue Input C 88 Flex Sensor B High Alarm 165 Oil Pressure Sensor OC 12 Analogue Input D 89 Flex Sensor B High Pre-Alm 166 Open Gen Output 13 Arm Safety On Alarms 90 Flex Sensor B Low Alarm 167 Open Gen Pulse 14 Audible Alarm 91 Flex Sensor B Low Pre-Alm 167 Open Gen Pulse 15 Auto Restore Inhibit 92 Flex Sensor C High Alarm 170 Over Current IDMT Alarm 17 Auxiliary Mains Failure 94 Flex Sensor C Low Alarm 171 Over Current Imm Warning 18 Battery High Volts 95 Flex Sensor C Low Pre-Alm 173 Over Freq Runaway 19 Batter Low Volts 96 Flex Sensor D Low Pre-Alm 173 Over Freq Runaway 20 Call For Scheduled Run 97 Flex Sensor D High Alarm <	Out	tout Sources				
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2 Alarm Mute						
3 Alarm Reset						
4 Alt Config 1 Selected 81 Fail To Slop 158 Maintenance Alarm 2 Due 6 RESERVED 82 Fan Control 159 Maintenance Alarm 2 Due 6 RESERVED 83 Flex Sensor A High Alarm 160 Maintenance Alarm 3 Due 17 RESERVED 84 Flex Sensor A High Pre-Alm 161 Manual Restore Contact 189 Maintenance Alarm 3 Due 18 RESERVED 85 Flex Sensor A Low Alarm 163 RESERVED 16 Analogue Input A 86 Flex Sensor A Low Pre-Alm 163 RESERVED 16 Analogue Input C 88 Flex Sensor A Low Alarm 165 Oil Pressure Sensor OC 11 Analogue Input C 89 Flex Sensor B High Pre-Alm 166 Oil Pressure Sensor OC 11 Analogue Input C 89 Flex Sensor B High Pre-Alm 167 Open Gen Pulse 16 Auto Start Inhibit 92 Flex Sensor B Low Alarm 167 Open Gen Pulse 16 Auto Start Inhibit 93 Flex Sensor C High Alarm 167 Open Gen Pulse 16 Auto Start Inhibit 93 Flex Sensor C High Pre-Alm 170 Over Current IDMT Alarm 171 Auxillary Mains Failure 94 Flex Sensor C High Pre-Alm 170 Over Current IDMT Alarm 171 Auxillary Mains Failure 94 Flex Sensor C High Pre-Alm 172 Over Freq Runaway 172 Over Freq Runaway 173 Over Freq Runaway 174 Over Speed Runaway 175 Ove						
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14 Audible Alarm						
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16 Aub Start Inhibit 93 Flex Sensor C High Alarm 170 Over Current IDMT Alarm 17 Auxillary Mains Failure 94 Flex Sensor C Low Alarm 171 Over Freq Runaway 19 Batter Low Volts 95 Flex Sensor C Low Pre-Alm 172 Over Freq Runaway 20 Call For Scheduled Run 97 Flex Sensor C Co 173 Over Freq Runaway 21 Charge Alt Fail Shutdown 98 Flex Sensor D Co 174 Over Speed Runaway 21 Charge Alt Fail Warning 39 Flex Sensor D Low Pre-Alm 175 Over Speed Shutdown 22 Charge Alt Fail Warning 39 Flex Sensor D Low Alarm 176 Over Speed Warning 24 Close Gen Pulse 100 Flex Sensor D Low Pre-Alm 177 Overspeed Delayed Wing 25 Close Mains Output 102 Flex Sensor D Co 179 Overspeed Overshoot Wing 27 Combined Mains Failure 104 Fuel Level High Alarm 180 Overspeed Overshoot Wing 28 Maintenance Alm 1, 23 105 Fuel Level Low Alarm 180 Overspeed Overshoot Wing 30 Combined Lo/Hi Volt Alm 106 Fuel Level Low Pre-Alarm 181 Preheat Until Crank End 31 Combined Lo/Hi Volt Wing 109 Fuel Sensor OC 183 Preheat Until Crank End 32 Comb				Flex Sensor B Low Pre-Alm	168	Open Mains Output
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198	<u> </u>					
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40 Config CAN 3 Active 117 Gen Hi Freq Overshoot Wng 194 Remote Control 8 41 Config CAN 4 Active 118 Gen Available 195 Remote Control 9 42 Config CAN 5 Active 119 Gen Closed Aux 196 Remote Start Off Load 43 Config CAN 6 Active 120 Gen Excite 197 Remote Start On Load 44 Config CAN 7 Active 121 Gen High Volts Marning 198 Reset Maintenance 1 45 Config CAN 9 Active 122 Gen High Volts Warning 198 Reset Maintenance 2 46 Config CAN 9 Active 122 Gen High Volts Shutdown 200 Reset Maintenance 3 47 Coolant Cooler Control 124 Gen High Volts Shutdown 200 Reset Maintenance 2 48 Config CAN 9 Active 125 Gen Low Volts Alarm 202 Scheduled Auto Start Inhit 48 Coolant Temp Switch 126 Gen Low Volts Alarm 202 SCR Inducement 49 Cooling Down 127 Gen High Freq Delayed Alm						
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Abbreviation Table Overleaf

Output Sources Continued Overleaf



DEEP SEA ELECTRONICS DSE6110 MKIII & DSE6120 MKIII Installation Instructions

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. If required press the button to move back to adjust one of the previous digits.
- PIN is checked for validity when the 🔾 (Tick) button is pressed. 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
- To exit the editor without saving the changes, press and hold the O(Stop/Reset)

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	Section	Parameter As Shown On Display
Module	Contrast	Engine	Frequency Adjust
	Language	Continued	DPF Auto Regen Inhibit
Engine	Manual Freq Trim]	DPF Man Regen Request
	Speed Bias		ECU Service Mode
	Governor Gain		

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

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

Deep Sea Electronics Ltd.

Tel:+44 (0)1723 890099 support@deepseaelectronics.com www.deepseaelectronics.com

Deep Sea Electronics Inc. Tel: +1 (815) 316 8706 Fax: +1 (815) 316 8708

USAsupport@deepseaelectronics.com www.deepseaelectronics.com

MAIN CONFIGURATION EDITOR PARAMETERS

NOTE: Comprehensive module configuration is possible using the DSE Configuration Suite PC Software, refer to DSE publication 057-290 DSE61xx MKIII Configuration Suite PC Software Manual available from www.deepseaelectronics.com.

Section	Parameter As Shown On Display
Module	Contrast
····ouuie	Language
	Current Date and Time
	Fast Loading
	Warnings Latched
	Lamp Test At Start Up
	Power Save Mode
	Backlight Power Saving
	Event Log Display Format
	Maintenance Pin Protect
	Cool Down In Stop Mode
	Hold Start Button To Crank
	Power Up In Mode
	Audible Alarm Timer
	Suppress Instrument Generator Voltage
	Suppress Instrument Generator Frequency
	Suppress Instrument Mains Voltage
	Suppress Instrument Mains Frequency
	Suppress Instrument Current
İ	Suppress Instrument kW
1	Suppress Instrument kvar
İ	Suppress Instrument kVA
	Suppress Instrument Power Factor
	Suppress Instrument kWh
	Suppress Instrument kvarh
	Suppress Instrument kVAh
	Suppress Instrument KVAII Suppress Instrument Charge Alternator
Alt Camfin	
Alt Config	Alternate Configuration
Engine	Start Attempts Gas Engine Choke (Gas Engine Only)
	Gas Engine Delay (Gas Engine Only)
	Ignition off Delay (Gas Engine Only) Crank Disconnect Oil Pressure
	Oil Pressure Check Prior to Starting
	Crank Disconnect Frequency
	Crank Disconnect Engine Speed
	Crank Disconnect Oil Pressure
	Oil Pressure Low Shutdown
	Oil Pressure Low Pre-Alarm
	Coolant Temp Low Warning
	Coolant Temp High Pre-Alarm
	Coolant Temp High Electrical Trip
	Coolant Temp High Shutdown
	Fuel Usage Running Rate
	Fuel Usage Stopped Rate
	Specific Gravity
	Pre-Heat Temp
	Pre-Heat Timer
	Post-Heat Temp
	Post-Heat Timer
	Droop [Enable]
	Droop [Control]
	Under Speed Shutdown [Enable]
	Under Speed Shutdown [Trip]
1	Under Speed Warning [Enable]
İ	Under Speed Warning
1	Under Speed Delay
İ	Over Speed Warning [Enable]
İ	Over Speed Warning
1	Over Speed Shutdown [Trip]
	Over Speed Delay
	Overspeed Overshoot
	Overspeed Overshoot [Delay]
	Battery Under Voltage Warning [Enable]
1	Battery Under Voltage Warning
	Battery Under Voltage Warning Return
	· · · · · · · · · · · · · · · · · · ·

Section	Parameter As Shown On Display
Engine	Battery Under Voltage Warning Delay
Continued	Battery Over Voltage Warning [Enable]
	Battery Over Voltage Warning Return
	Battery Over Voltage Warning
	Charge Alternator Failure Warning [Enable]
	Charge Alternator Failure Warning
	Charge Alternator Failure Warning Delay
	Charge Alternator Failure Shutdown [Enable]
	Charge Alternator Failure Shutdown
	Charge Alternator Failure Shutdown Delay
	Low Battery Start [Enable]
	Low Battery Run On Load [Enable]
	Low Battery Start Threshold
	Low Battery Start Delay
	Low Battery Run Time
	Magnetic Pickup [Enable]
	Flywheel Teeth
Generator	AC System
	Alternator Fitted
	Alternator Poles
	Under Voltage Alarm [Enable]
	Under Voltage Alarm [Trip]
	Under Voltage Pre-Alarm [Enable]
	Under Voltage Pre-Alarm [Trip]
	Under Voltage Delay
	Loading Voltage
	Nominal Voltage
	Over Voltage Pre-Alarm [Enable]
	Over Voltage Pre-Alarm Return
	Over Voltage Pre-Alarm [Trip]
	Over Voltage Shutdown [Trip]
	Over Voltage Delay
	Under Frequency Alarm [Enable]
	Under Frequency Alarm [Trip]
	Under Frequency Pre-Alarm [Enable]
	Under Frequency Pre-Alarm [Trip]
	Under Frequency Delay
	Loading Frequency
	Nominal Frequency
	Over Frequency Pre-Alarm [Enable]
	Over Frequency Pre-Alarm Return
	Over Frequency Pre-Alarm [Trip]
	Over Frequency Shutdown [Trip]
	Over Frequency Delay
	Frequency Overshoot Shutdown
	Frequency Overshoot Delay
	CT Location
	CT Primary
	Full Load Rating
	Immediate Over Current [Enable]
	Delayed Over Current [Enable]
	Delayed Over Current
	Full Load kW Rating
	kW Overload Alarm [Enable]
	kW Overload Alarm Action
	kW Overload Alarm Return
	kW Overload Alarm Trip
	kW Overload Alarm Delay
Mains	Mains Failure Detection
DSE6120	Immediate Mains Dropout
MKIII Only	Under Voltage [Enable]
	Under Voltage Trip
	Under Voltage Return
	Over Voltage [Enable]
	Over Voltage [Enable]
	Over Voltage Trip
	Under Frequency [Enable]
	Under Frequency Trip
	Under Frequency Return
	Over Frequency [Enable]
	Over Frequency Return
	I Over Frequency Trip
Timers	Over Frequency Trip Start Delay Off Load

Timers Continued Start Delay Palemetry Mains Transient Delay Cranking Cranking Rest Smoke Limiting Smoke Limiting DPF Ramp Safety On Delay Warming ECU Override Mains Transfer Time Breaker Close Pulse Breaker Close Pulse Breaker Trip Pulse Return Delay Cooling Cooling At Idle ETS Solenoid Hold Fail To Stop Delay LCD Page Delay LCD Soroll Delay Backlight Timer Sleep Timer Audible Alarm CAN ECU Alternate Engine Speed ECU Data Fail ECU Data Fail Action ECU Data Fail Action ECU Data Fail Delay Use Module Oil Pressure Use Module Coolant Temp Use Module RPM Use Module Regne Hours Use Module Regne Hours Waintenance Alarm 1 Engine Hours Maintenance Alarm 1 Interval Maintenance Alarm 1 Interval Maintenance Alarm 2 Engine Hours Maintenance Alarm 2 Interval Maintenance Alarm 3 Engine Hours Maintenance Alarm 4 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine Hours Maintenance Alarm 5 Engine ECU Date Engine ECU Date Engine ECU Dat	Section	Parameter As Shown On Display
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Section	Parameter As Shown On Display
Schedule	Bank 1 Schedule 1 to 8
Continued	Schedule Period Bank 2
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ABBREVIATION KEY TABLE

Abbreviation	Meaning
Alm	Alarm
Wng	Warning
Sdn	Shutdown
E Trip	Electrical Trip
oc	Open Circuit
Lo	Low/Under
Hi	High/Over
Alt	Alternative
Freq	Frequency
Gen	Generator
Ph	Phase
Grey Coloured Item	DSE6120 MKIII Only

REQUIREMENTS FOR UL CERTIFICATION

	NTS FOR UL CERTIFICATION
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 ½" (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.
Operating Temperature	-22 °F to +122 °F (-30 °C to +50 °C)