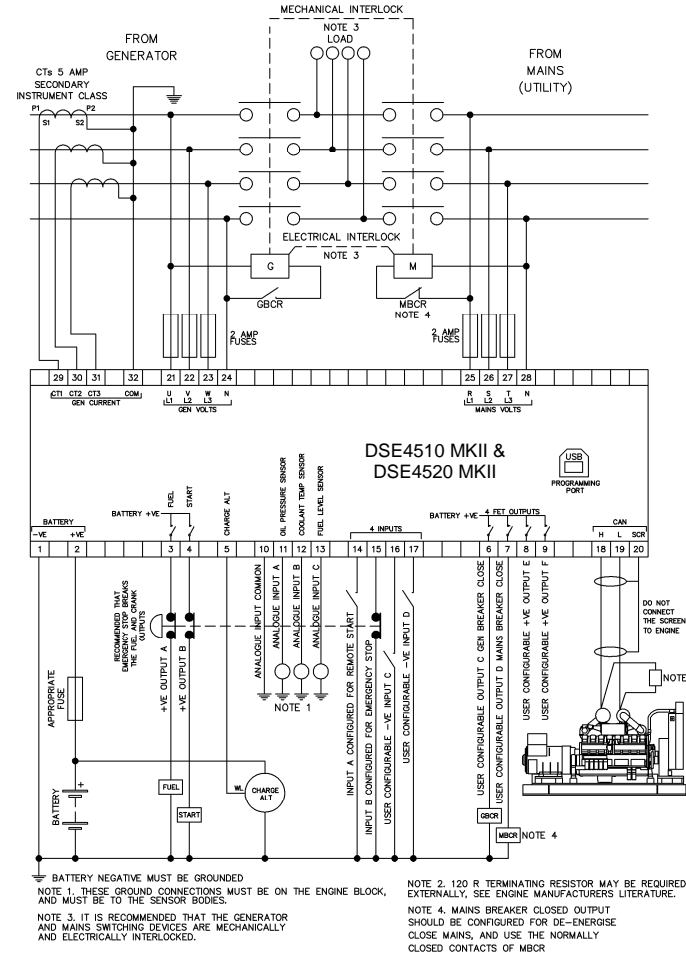


Configuration Parameters – Alternate Configuration 1 (Page 20)			
2001-2053 Refer to the Alternate Configuration List table for configuration parameters.			
Configuration Parameters – Alternate Configuration 2 (Page 30)			
3001-3053 Refer to the Alternate Configuration List table for configuration parameters.			
Configuration Parameters – Alternate Configuration 3 (Page 40)			
4001-4053 Refer to the Alternate Configuration List table for configuration parameters.			
Alternate Configuration List			
#001	Default Configuration	On (1), Off (0)	#028 Delayed Over Current Alarm On (1), Off (0)
#002	Enable Configuration	On (1), Off (0)	#029 Delayed Over Current Alarm Action 0 (Action)
#003	CAN Alternative Engine Speed	On (1), Off (0)	#030 Over Current Delay 00:00:00
#004	Under Voltage Shutdown Enable	On (1), Off (0)	#031 Over Current Trip 0 %
#005	Under Voltage Shutdown Trip	0 V	#032 Generator kW Rating 0 kW
#006	Under Voltage Warning Enable	On (1), Off (0)	#033 Overload Protection Enable On (1), Off (0)
#007	Under Voltage Warning Trip	0 V	#034 Overload Protection Action 0 (Action)
#008	Loading Voltage	0 V	#035 Overload Protection Trip 0 %
#009	Over Voltage Warning Enable	On (1), Off (0)	#036 Overload Protection Trip Delay 0 s
#010	Over Voltage Warning Return	0 V	#037 AC System 0 (AC system)
#011	Over Voltage Warning Trip	0 V	#038 Mains Failure Detection On (1), Off (0)
#012	Over Voltage Trip	0 V	#039 Immediate Mains Dropout On (1), Off (0)
#013	Under Frequency Shutdown Enable	On (1), Off (0)	#040 Mains Under Voltage Enable On (1), Off (0)
#014	Under Frequency Shutdown Trip	0.0 Hz	#041 Mains Under Voltage Trip 0 V
#015	Under Frequency Warning Enable	On (1), Off (0)	#042 Mains Under Voltage Return 0 V
#016	Under Frequency Warning Trip	0.0 Hz	#043 Mains Over Voltage Enable On (1), Off (0)
#017	Loading Frequency	0.0 Hz	#044 Mains Over Voltage Return 0 V
#018	Nominal Frequency	0.0 Hz	#045 Mains Over Voltage Trip 0 V
#019	Over Frequency Warning Enable	On (1), Off (0)	#046 Mains Under Frequency Enable On (1), Off (0)
#020	Over Frequency Warning Return	0.0 Hz	#047 Mains Under Frequency Trip 0.0 Hz
#021	Over Frequency Warning Trip	0.0 Hz	#048 Mains Under Frequency Return 0.0 Hz
#022	Over Frequency Shutdown Enable	On (1), Off (0)	#049 Mains Over Frequency Enable On (1), Off (0)
#023	Over Frequency Shutdown Trip	0.0 Hz	#050 Mains Over Frequency Return 0.0 Hz
#024	CT Primary	0 A	#051 Mains Over Frequency Trip 0.0 Hz
#025	CT Secondary	1 A, 5 A	#052 Under Speed Shutdown Enable On (1), Off (0)
#026	Full Load Rating	0 A	#053 Under Speed Shutdown Trip 0 RPM
#027	Immediate Over Current	On (1), Off (0)	#054 Over Speed Shutdown Trip 0 RPM

Output Sources			
0	Not Used	37	Generator Over Voltage Shutdown
1	Air Flap Relay	38	Generator Under Voltage Shutdown
2	Audible Alarm	39	kW Overload Alarm
3	Battery Over Volts Warning	40	Over Current Immediate Warning
4	Battery Under Volts Warning	41	Delayed Over Current Trip Alarm
5	CAN ECU Data Fail	42	High Coolant Temperature Shutdown
6	CAN ECU Error	43	Low Oil Pressure Shutdown
7	CAN ECU Fail	44	Mains High Frequency
8	CAN ECU Power	45	Mains High Voltage
9	CAN ECU Stop	46	Mains Low Frequency
10	Charge Alternator Shutdown	47	Mains Low Voltage
11	Charge Alternator Warning	48	Oil Pressure Sensor Open Circuit
12	Close Gen Output	49	Open Gen Output
13	Close Gen Output Pulse	50	Open Gen Output Pulse
14	Close Mains Output	51	Open Mains Output
15	Close Mains Output Pulse	52	Open Mains Output Pulse
16	Combined Mains Failure	53	Over Frequency Shutdown
17	Common Alarm	54	Over Speed Shutdown
18	Common Electrical Trip	55	Preheat During Preheat Timer
19	Common Shutdown	56	Preheat Until End Of Crank
20	Common Warning	57	Preheat Until End Of Safety Timer
21	Cooling Down	58	Preheat Until End Of Warming
22	Digital Input A	59	Smoke Limiting
23	Digital Input B	60	Start Relay
24	Digital Input C	61	Temperature Sensor Open Circuit
25	Digital Input D	62	Under Frequency Shutdown
26	RESERVED	63	Under Speed Shutdown
27	RESERVED	64	Waiting For Manual Restore
28	RESERVED	65	Flexible Sensor C High Alarm
29	Emergency Stop	66	Flexible Sensor C High Alarm
30	Emergency To Stop	67	Flexible Sensor C Low Pre-Alarm
31	Fail To Start	68	Flexible Sensor C Low Alarm
32	Fail To Stop	69	RESERVED
33	Fuel Relay	70	RESERVED
34	Gas Choke On	71	RESERVED
35	Gas Ignition	72	RESERVED
36	Generator Available	73	Fuel Sensor High Alarm
		74	Fuel Sensor High Alarm
		75	Fuel Sensor Low Pre-Alarm
		76	Fuel Sensor Low Alarm
		77	Delayed Load Output 1
		78	Delayed Load Output 2
		79	Delayed Load Output 3
		80	Delayed Load Output 4
		81	Air Filter Maintenance Output
		82	Oil Filter Maintenance Output
		83	Fuel Filter Maintenance Output
		84	System In Stop Mode
		85	System In Auto Mode
		86	System In Manual Mode
		87	RESERVED
		88	Analogue Input A (Digital)
		89	Analogue Input B (Digital)
		90	Analogue Input C (Digital)
		91	RESERVED
		92	RESERVED
		93	RESERVED
		94	RESERVED
		95	Over Speed Overshoot
		96	Over Frequency Overshoot
		97	Display Heater Fitted and Active
		98	RESERVED
		99	SCR Inducement
		100	DEF Level Low Active
		101	DPF Auto Regeneration Inhibit
		102	DPF Forced Regeneration
		103	DPF None Mission State
		104	DPF Regeneration In Progress
		105	DPF Regeneration Interlock Active
		106	DPF Filter
		107	HEST Active
		108	Water in Fuel

Functionality in DSE4510 MKII & DSE4520 MKII
Functionality in DSE4520 MKII only

TYPICAL WIRING DIAGRAM



NOTE: A larger version of the typical wiring diagram is included in the product's operator manual. Refer to DSE Publication: 057-260 DSE4510 MKII & DSE4520 MKII Operator Manual

NOTE: Terminals 25, 26, 27 & 28 are not fitted to the DSE4510 MKII

REQUIREMENTS FOR UL CERTIFICATION

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 12 AWG – 26 AWG (0.5 mm² to 2.0 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 1/8" (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 use in type 1 Enclosure Type rating with surrounding air temperature -22 °F to +158 °F (-30 °C to +70 °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 install in an unventilated or filtered ventilation enclosure to maintain a pollution degree 2 environment.
Operating Temperature	• -22 °F to +158 °F (-30 °C to +70 °C)
Storage Temperature	• -40 °F to +176 °F (-40 °C to +80 °C)



DEEP SEA ELECTRONICS PLC DSE4510 MKII & DSE4520 MKII Installation Instructions

EDITING A PARAMETER

- Press the Stop/Reset Mode (-) and Auto Mode (✓) buttons together to enter the editor mode.
- Press the Up or Down navigation buttons to cycle through the front panel editor in increments of 100.
- Press the Manual/Start Mode (+) or Stop/Reset Mode (-) buttons to cycle through the front panel editor in increments of 1.
- When viewing the parameter to be edited, press the Auto Mode (✓) button and the value begins to flash.
- Press the Manual/Start Mode (+) or Stop/Reset Mode (-) navigation buttons to adjust the value to the required setting.
- Press the Auto Mode (✓) button to save the current value, the value ceases flashing.
- Press and hold the Auto Mode (✓) button to save and exit the editor, the configuration icon is removed from the display.

NOTE: Pressing and holding the Manual/Start Mode (+) or Stop/Reset Mode (-) buttons will give auto-repeat functionality.

NOTE: More comprehensive module configuration is possible via PC configuration software. For further details of module configuration, refer to DSE Publication: 057-258 DSE4510 MKII & DSE4520 MKII Configuration Suite PC Software Manual.

Deep Sea Electronics PLC
Tel: +44 (0)1723 890099
Fax: +44 (0)1723 893303
Email: sales@deepseapl.com
Web: www.deepseapl.com

Deep Sea Electronics Inc
Tel: +1 (815) 316-8706
Fax: +1 (815) 316-8708
Email: sales@deepseausa.com
Web: www.deepseausa.com