

Configuration Parameters – Module (Page 1)					
101	Contrast	0 (%)	117	Use Module RPM	On (1), Off (0)
102	Fast Loading Enabled	On (1), Off (0)	118	Use Module Charge Alt	On (1), Off (0)
103	All Warnings Latched	On (1), Off (0)	119	Disable CAN Speed Control	On (1), Off (0)
104	Lamp Test At Startup	On (1), Off (0)	120	CT Position	Gen (0), Load(1)
105	Power Save Mode Enable	On (1), Off (0)	121	Generator Voltage Display	On (1), Off (0)
106	Deep Sleep Mode Enable	On (1), Off (0)	122	Mains Voltage Display	On (1), Off (0)
107	Protected Start Enable	On (1), Off (0)	123	Generator Frequency Display	On (1), Off (0)
108	Event Log Display Format	On (1), Off (0)	124	Mains Frequency Display	On (1), Off (0)
109	Power Up Mode	0 (Power Up Mode)	125	Current Display	On (1), Off (0)
110	DTC String Enable	On (1), Off (0)	126	kW Display	On (1), Off (0)
111	RESERVED		127	kvar Display	On (1), Off (0)
112	Pin Protected Maintenance Reset	On (1), Off (0)	128	kVA Display	On (1), Off (0)
113	Stop Button Cooldown	On (1), Off (0)	129	pf Display	On (1), Off (0)
114	Use Module Oil Pressure	On (1), Off (0)	130	kWh Display	On (1), Off (0)
115	Use Module Coolant Temp	On (1), Off (0)	131	kvarh Display	On (1), Off (0)
116	Use Module Engine Hours	On (1), Off (0)	132	kVAh Display	On (1), Off (0)
Configuration Parameters – CAN Application (Page 2)					
201	CAN Alternative Engine Speed	On (1), Off (0)	203	CAN ECU Data Fail Action	0 (Action)
202	CAN ECU Data Fail Enable	On (1), Off (0)	204	CAN ECU Data Fail Delay	0 s
Configuration Parameters – Digital Inputs (Page 3)					
301	Digital Input A Source		301	Digital Input A Source	0 (Input Source)
302	Digital Input A Polarity		302	Digital Input A Polarity	0 (Polarity)
303	Digital Input A Action (If Source = User Config)		303	Digital Input A Action (If Source = User Config)	0 (Action)
304	Digital Input A Arming (If Source = User Config)		304	Digital Input A Arming (If Source = User Config)	0 (Arming)
305	Digital Input A Activation Delay (If Source = User Config)		305	Digital Input A Activation Delay (If Source = User Config)	0 s
306	Digital Input B Source		306	Digital Input B Source	0 (Input Source)
307	Digital Input B Polarity		307	Digital Input B Polarity	0 (Polarity)
308	Digital Input B Action (If Source = User Config)		308	Digital Input B Action (If Source = User Config)	0 (Action)
309	Digital Input B Arming (If Source = User Config)		309	Digital Input B Arming (If Source = User Config)	0 (Arming)
310	Digital Input B Activation Delay (If Source = User Config)		310	Digital Input B Activation Delay (If Source = User Config)	0 s
311	Digital Input C Source		311	Digital Input C Source	0 (Input Source)
312	Digital Input C Polarity		312	Digital Input C Polarity	0 (Polarity)
313	Digital Input C Action (If Source = User Config)		313	Digital Input C Action (If Source = User Config)	0 (Action)
314	Digital Input C Arming (If Source = User Config)		314	Digital Input C Arming (If Source = User Config)	0 (Arming)
315	Digital Input C Activation Delay (If Source = User Config)		315	Digital Input C Activation Delay (If Source = User Config)	0 s
316	Digital Input D Source		316	Digital Input D Source	0 (Input Source)
317	Digital Input D Polarity		317	Digital Input D Polarity	0 (Polarity)
318	Digital Input D Action (If Source = User Config)		318	Digital Input D Action (If Source = User Config)	0 (Action)
319	Digital Input D Arming (If Source = User Config)		319	Digital Input D Arming (If Source = User Config)	0 (Arming)
320	Digital Input D Activation Delay (If Source = User Config)		320	Digital Input D Activation Delay (If Source = User Config)	0 s
321-330	RESERVED				
331	Analogue Input A (Set As Digital) Source		331	Analogue Input A (Set As Digital) Source	0 (Input Source)
332	Analogue Input A (Set As Digital) Polarity		332	Analogue Input A (Set As Digital) Polarity	0 (Polarity)
333	Analogue Input A (Set As Digital) Action (If Source = User Config)		333	Analogue Input A (Set As Digital) Action (If Source = User Config)	0 (Action)
334	Analogue Input A (Set As Digital) Arming (If Source = User Config)		334	Analogue Input A (Set As Digital) Arming (If Source = User Config)	0 (Arming)
335	Analogue Input A (Set As Digital) Activation Delay (If Source = User Config)		335	Analogue Input A (Set As Digital) Activation Delay (If Source = User Config)	0 s
336	Analogue Input B (Set As Digital) Source		336	Analogue Input B (Set As Digital) Source	0 (Input Source)
337	Analogue Input B (Set As Digital) Polarity		337	Analogue Input B (Set As Digital) Polarity	0 (Polarity)
338	Analogue Input B (Set As Digital) Action (If Source = User Config)		338	Analogue Input B (Set As Digital) Action (If Source = User Config)	0 (Action)
339	Analogue Input B (Set As Digital) Arming (If Source = User Config)		339	Analogue Input B (Set As Digital) Arming (If Source = User Config)	0 (Arming)
340	Analogue Input B (Set As Digital) Activation Delay (If Source = User Config)		340	Analogue Input B (Set As Digital) Activation Delay (If Source = User Config)	0 s
341	Analogue Input C (Set As Digital) Source		341	Analogue Input C (Set As Digital) Source	0 (Input Source)
342	Analogue Input C (Set As Digital) Polarity		342	Analogue Input C (Set As Digital) Polarity	0 (Polarity)
343	Analogue Input C (Set As Digital) Action (If Source = User Config)		343	Analogue Input C (Set As Digital) Action (If Source = User Config)	0 (Action)
344	Analogue Input C (Set As Digital) Arming (If Source = User Config)		344	Analogue Input C (Set As Digital) Arming (If Source = User Config)	0 (Arming)
345	Analogue Input C (Set As Digital) Activation Delay (If Source = User Config)		345	Analogue Input C (Set As Digital) Activation Delay (If Source = User Config)	0 s
Configuration Parameters – Outputs (Page 4)					
401	Digital Output A Source	0 (Output Source)	407	Digital Output D Source	0 (Output Source)
402	Digital Output A Polarity	0 (Output Polarity)	408	Digital Output D Polarity	0 (Output Polarity)
403	Digital Output B Source	0 (Output Source)	409	Digital Output E Source	0 (Output Source)
404	Digital Output B Polarity	0 (Output Polarity)	410	Digital Output E Polarity	0 (Output Polarity)
405	Digital Output C Source	0 (Output Source)	411	Digital Output F Source	0 (Output Source)
406	Digital Output C Polarity	0 (Output Polarity)	412	Digital Output F Polarity	0 (Output Polarity)

Configuration Parameters – Generator (Page 6)					
601	Alternator Fitted	On (1), Off (0)	621	Over Frequency Warning Return	0.0 Hz
602	Alternator Poles	0	622	Over Frequency Warning Trip	0.0 Hz
603	Under Voltage Shutdown Enable	On (1), Off (0)	623	Over Frequency Shutdown Enable	On (1), Off (0)
604	Under Voltage Trip Shutdown	0 V	624	Over Frequency Shutdown Trip	0.0 Hz
605	Under Voltage Warning Enable	On (1), Off (0)	625	AC System	0 (AC System)
606	Under Voltage Warning Trip	0 V	626	CT Primary	0 A
607	RESERVED		627	CT Secondary	1 A, 5 A
608	Loading Voltage	0 V	628	Full Load Rating	0 A
609	Over Voltage Warning Enable	On (1), Off (0)	629	Immediate Over Current Enable	On (1), Off (0)
610	Over Voltage Warning Return	0 V	630	Delayed Over Current Alarm Enable	On (1), Off (0)
611	Over Voltage Warning Trip	0 V	631	Delayed Over Current Alarm Action	0 (Action)
612	Over Voltage Shutdown Trip	0 V	632	Over Current Delay Time	0 s
613	Under Frequency Shutdown Enable	On (1), Off (0)	633	Over Current Trip	0 %
614	Under Frequency Shutdown Trip	0.0 Hz	634	kW Rating	0 kW
615	Under Frequency Warning Enable	On (1), Off (0)	635	Over kW Protection Enable	On (1), Off (0)
616	Under Frequency Warning Trip	0.0 Hz	636	Over kW Protection Action	0 (Action)
617	RESERVED		637	Over kW Protection Trip	0 %
618	Loading Frequency	0.0 Hz	638	Over kW Protection Trip Delay	0 s
619	Nominal Frequency	0.0 Hz	639	Enable CT Support	On (1), Off (0)
620	Over Frequency Warning Enable	On (1), Off (0)			
Configuration Parameters – Mains (Page 7)					
701	AC System	0 (AC System)	709	Over Voltage Level Trip	0 V
702	Mains Failure Detection	On (1), Off (0)	710	Under Frequency Enable	On (1), Off (0)
703	Immediate Mains Dropout	On (1), Off (0)	711	Under Frequency Trip	0.0 Hz
704	Under Voltage Enable	On (1), Off (0)	712	Under Frequency Return	0.0 Hz
705	Under Voltage Level	0 V	713	Over Frequency Enable	On (1), Off (0)
706	Under Voltage Return	0 V	714	Over Frequency Return	0 Hz
707	Over Voltage Enable	On (1), Off (0)	715	Over Frequency Trip	0.0 Hz
708	Over Voltage Return	0 V			
Configuration Parameters – Engine (Page 8)					
801	Start Attempts	0	822	High Battery Voltage Warning Delay	0 s
802	Over Speed Overshoot	0 %	823	Charge Alt Shutdown Enable	On (1), Off (0)
803	Over Speed Delay	0 s	824	Charge Alt Shutdown Trip	0.0 V
804	Gas Choke Timer (Gas Engine Only)	0 s	825	Charge Alt Shutdown Delay	0 s
805	Gas On Delay (Gas Engine Only)	0 s	826	Charge Alt Warning Enable	On (1), Off (0)
806	Gas Ignition Off Delay (Gas Engine Only)	0 s	827	Charge Alt Warning Trip	0.0 V
807	Crank Disconnect On Oil Pressure Enable	On (1), Off (0)	828	Charge Alt Warning Delay	0 s
808	Check Oil Pressure Prior To Starting	On (1), Off (0)	829	Low Battery Start Arming	On (1), Off (0)
809	Crank Disconnect On Oil	0.00 Bar	830	Low Battery Start Threshold	0.0 V
810	Crank Disconnect On Frequency	0.0 Hz	831	Low Battery Start Delay	0 s
811	Crank Disconnect On Engine Speed	0 RPM	832	Low Battery Start Run Time	0 s
812	Under Speed Enable	On (1), Off (0)	833	RESERVED	
813	Under Speed Trip	0 RPM	834	RESERVED	
814	Over Speed Trip	0 RPM	835	J1939-75 Instruments Enable	On (1), Off (0)
815	Low Battery Voltage Enable	On (1), Off (0)	836	J1939-75 Alarms Enable	On (1), Off (0)
816	Low Battery Voltage Trip	0 V	837	CAN TX Messages Enable	On (1), Off (0)
817	Low Battery Voltage Return	0 V	838	CAN RX Instruments Enable	On (1), Off (0)
818	Low Battery Voltage Delay	0.00:00	839	RESERVED	
819	High Battery Voltage Enable	On (1), Off (0)	840	Tier 4 Home Screen Enable	On (1), Off (0)
820	High Battery Voltage Return	0 V	841	Start Pause Time	0 s
821	High Battery Voltage Trip	0 V			

Configuration Parameters – Analogue Inputs (Page 9)			
901	Analogue Input A Sensor Type	0 (Sensor Type)	
902	Analogue Input A Sensor Selection	0 (Pressure Sensor List)	
903	Low Oil Pressure Enable	On (1), Off (0)	
904	Low Oil Pressure Trip	0 Bar	
905	Oil Pressure Sensor Open Circuit	On (1), Off (0)	
906	Analogue Input B Sensor Type	0 (Sensor Type)	
907	Analogue Input B Sensor Selection	0 (Temperature Sensor List)	
908	High Engine Temperature Trip	0.00 °C	
909	Temperature Sensor Open Circuit	On (1), Off (0)	
910	Analogue Input C Sensor Usage	Flexible Sensor (1), Fuel Level Sensor (0)	
911	Analogue Input C Sensor Type	0 (Sensor Type)	
912	Analogue Input C Sensor Selection	0 (Pressure / Temperature / Percentage Sensor List)	
913	Flexible Sensor C Arming	0 (Arming)	
914	Flexible Sensor C Low Alarm Action	0 (Action)	
915	Flexible Sensor C Low Alarm Trip	0 % / Bar / °C	
916	RESERVED		
917	Flexible Sensor C Low Pre-Alarm Enable	On (1), Off (0)	
918	Flexible Sensor C Low Pre-Alarm Trip	0 % / Bar / °C	
919	Flexible Sensor C Low Pre-Alarm Return	0 % / Bar / °C	
920	RESERVED		
921	Flexible Sensor C High Pre-Alarm Enable	On (1), Off (0)	
922	Flexible Sensor C High Pre-Alarm Return	0 % / Bar / °C	
923	Flexible Sensor C High Pre-Alarm Trip	0 % / Bar / °C	
924-925	RESERVED		
926	Flexible Sensor C High Alarm Action	0 (Action)	
927	Flexible Sensor C High Alarm Trip	0 % / Bar / °C	
928-929	RESERVED		
930	Fuel Sensor C Low Shutdown Enable	On (1), Off (0)	
931	Fuel Sensor C Low Shutdown Trip	0 %	
932	Fuel Sensor C Low Shutdown Delay	0 s	
933	Fuel Sensor C Low Pre-Alarm Enable	On (1), Off (0)	
934	Fuel Sensor C Low Pre-Alarm Trip	0 %	
935	Fuel Sensor C Low Pre-Alarm Return	0 %	
936	Fuel Sensor C Low Pre-Alarm Delay	0 s	
937	Fuel Sensor C High Pre-Alarm Enable	On (1), Off (0)	
938	Fuel Sensor C High Pre-Alarm Return	0 %	
939	Fuel Sensor C High Pre-Alarm Trip	0 %	
940	Fuel Sensor C High Pre Alarm Delay	0 s	
941	RESERVED		
942	Fuel Sensor C High Alarm Action	0 (Action)	
943	Fuel Sensor C High Alarm Trip	0 %	
944	Fuel Sensor C High Alarm Delay	0 s	
Configuration Parameters – Scheduler (Page 10)			
1001	Enable Scheduler	On (1), Off (0)	
1002	Schedule Run On or Off Load	On (1), Off (0)	
1003	Scheduler Period	Weekly(0), Monthly(1)	
1004, 1008, 1012, 1016, 1020, 1024, 1028, 1032	Start Time (Entry 1-8)	0:00:00	
1005, 1009, 1013, 1017, 1021, 1025, 1029, 1033	Day (Entry 1-8)	0 (1=Monday)	
1006, 1010, 1014, 1018, 1022, 1026, 1030, 1034	Week (Entry 1-8)	1, 2, 3 or 4	
1007, 1011, 1015, 1019, 1023, 1027, 1031, 1035	Duration (Entry 1-8)	0 s	
Configuration Parameters – Time (Page 11)			
1101	Time of Day	0:00:00	1-31
1102	RESERVED		1-12
1103	RESERVED		0-99
Configuration Parameters – Maintenance Alarms (Page 12)			
1201	Oil Maintenance Alarm Enable	On (1), Off (0)	1206 Air Maintenance Alarm Engine Hours
1202	Oil Maintenance Alarm Action	0 (Action)	1207 Fuel Maintenance Alarm Enable
1203	Oil Maintenance Alarm Engine Hours	0 h	1208 Fuel Maintenance Alarm Action
1204	Air Maintenance Alarm Enable	On (1), Off (0)	1209 Fuel Maintenance Alarm Engine Hours
1205	Air Maintenance Alarm Action	0 (Action)	0 h
Pressure Sensor List		Temperature Sensor List	
Index	Type	Index	Type
0	Not used	0	Not Used
1	Dig Closed for Alarm	1	Dig Closed for Alarm
2	Dig Open for Alarm	2	Dig Open for Alarm
3	VDO 5 Bar	3	VDO 120 °C
4	VDO 10 Bar	4	Datcon High
5	Datcon 5 Bar	5	Datcon Low
6	Datcon 10 Bar	6	Murphy
7	Datcon 7 Bar	7	Cummins
8	Murphy 7 Bar	8	PT100
9	CMB812	9	Veglia
10	Veglia	10	Beru
11	User Defined	11	User Defined

DIMENSIONS

DIMENSIONS
140 mm x 113 mm x 43 mm
(5.5" x 4.4" x 1.7")

PANFI GUTIOL

118 mm x 92
(4.6" x 3.6")

TERMINAL S

TERMINALS
Tightening Torque: 0.5 Nm (4.5 lb-in)
Conductor Size: 0.5 mm² to 2.5 mm²
(AWG 24 to AWG 10)

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	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

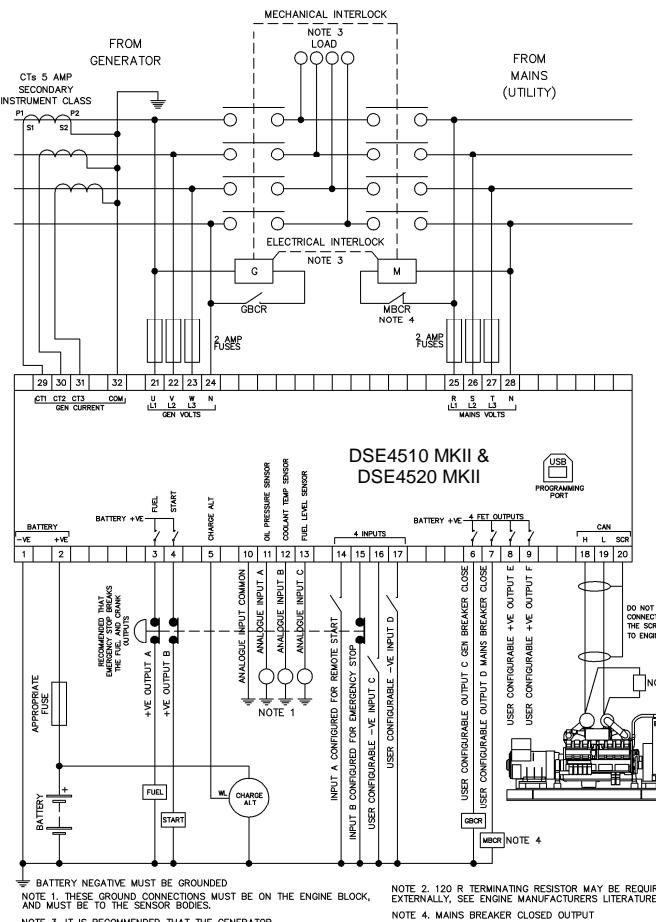
Output Sources

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

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	• Terminals suitable for connection of conductor size 12 AWG – 26 AWG (0.5 mm ² to 2.0 mm ²). • 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 1/4" (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 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 installed 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.
- 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 cycle through the front panel editor in increments of 1.
- 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.

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