

CONFIGURATION PARAMETERS – MODULE (PAGE 1)					
101	Contrast	0 (%)	118	Disable CAN Speed Control	On (1), Off (0)
102	Fast Loading Enabled	On (1), Off (0)	119	Auto Light Control In Manual	On (1), Off (0)
103	All Warnings Latched	On (1), Off (0)	120	Manual Light Sequence Control Display	On (1), Off (0)
104	Lamp Test At Startup	On (1), Off (0)	121	Manual Individual Light Control Display	On (1), Off (0)
105	Power Save Mode Enable	On (1), Off (0)	122	Manual All Light Control Display	On (1), Off (0)
106	Deep Sleep Mode Enable	On (1), Off (0)	123	Generator Volt Display	On (1), Off (0)
107	Protected Start Enable	On (1), Off (0)	124	Generator Hz Display	On (1), Off (0)
108	Event Log Display Format	On (1), Off (0)	125	Current Display	On (1), Off (0)
109	Power Up Mode	0 (Power Up Mode)	126	kW Display	On (1), Off (0)
110	DTC String Enable	On (1), Off (0)	127	kvar Display	On (1), Off (0)
111	Pin Protected Maintenance Reset	On (1), Off (0)	128	kV A Display	On (1), Off (0)
112	Stop Button Cooldown	On (1), Off (0)	129	pf Display	On (1), Off (0)
113	Use Module Oil Pressure	On (1), Off (0)	130	kW h Display	On (1), Off (0)
114	Use Module Coolant Temp	On (1), Off (0)	131	kvar h Display	On (1), Off (0)
115	Use Module Engine Hours	On (1), Off (0)	132	kV A h Display	On (1), Off (0)
116	Use Module RPM	On (1), Off (0)	133	Mains Supply Voltage Display	On (1), Off (0)
117	Use Module Charge Alt	On (1), Off (0)	134	Mains Supply Hz 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	Low Fuel Shutdown Light Output 1 Enable	On (1), Off (0)		
302	Low Fuel Shutdown Light Output 1 Level	0 %		
303	Low Fuel Shutdown Light Output 1 Timer	0 s		
304	Low Fuel Shutdown Light Output 2 Enable	On (1), Off (0)		
305	Low Fuel Shutdown Light Output 2 Level	0 %		
306	Low Fuel Shutdown Light Output 2 Timer	0 s		
307	Low Fuel Shutdown Light Output 3 Enable	On (1), Off (0)		
308	Low Fuel Shutdown Light Output 3 Level	0 %		
309	Low Fuel Shutdown Light Output 3 Timer	0 s		
310	Low Fuel Shutdown Light Output 4 Enable	On (1), Off (0)		
311	Low Fuel Shutdown Light Output 4 Level	0 %		
312	Low Fuel Shutdown Light Output 4 Timer	0 s		
313	Digital Input A Source	0 (Input Source)		
314	Digital Input A Polarity	0 (Polarity)		
315	Digital Input A Action (If Source = User Config)	0 (Action)		
316	Digital Input A Arming (If Source = User Config)	0 (Arming)		
317	Digital Input A Activation Delay (If Source = User Config)	0 s		
318	Digital Input B Source	0 (Input Source)		
319	Digital Input B Polarity	0 (Polarity)		
320	Digital Input B Action (If Source = User Config)	0 (Action)		
321	Digital Input B Arming (If Source = User Config)	0 (Arming)		
322	Digital Input B Activation Delay (If Source = User Config)	0 s		
323	Digital Input C Source	0 (Input Source)		
324	Digital Input C Polarity	0 (Polarity)		
325	Digital Input C Action (If Source = User Config)	0 (Action)		
326	Digital Input C Arming (If Source = User Config)	0 (Arming)		
327	Digital Input C Activation Delay (If Source = User Config)	0 s		
328	Digital Input D Source	0 (Input Source)		
329	Digital Input D Polarity	0 (Polarity)		
330	Digital Input D Action (If Source = User Config)	0 (Action)		
331	Digital Input D Arming (If Source = User Config)	0 (Arming)		
332	Digital Input D Activation Delay (If Source = User Config)	0 s		
333	Digital Input E Source	0 (Input Source)		
334	Digital Input E Polarity	0 (Polarity)		
335	Digital Input E Action (If Source = User Config)	0 (Action)		
336	Digital Input E Arming (If Source = User Config)	0 (Arming)		
337	Digital Input E Activation Delay (If Source = User Config)	0 s		
338	Digital Input F Source	0 (Input Source)		
339	Digital Input F Polarity	0 (Polarity)		
340	Digital Input F Action (If Source = User Config)	0 (Action)		
341	Digital Input F Arming (If Source = User Config)	0 (Arming)		
342	Digital Input F Activation Delay (If Source = User Config)	0 s		
343	Analogue Input A (Set As Digital) Source	0 (Input Source)		
344	Analogue Input A (Set As Digital) Polarity	0 (Polarity)		
345	Analogue Input A (Set As Digital) Action (If Source = User Config)	0 (Action)		
346	Analogue Input A (Set As Digital) Arming (If Source = User Config)	0 (Arming)		
347	Analogue Input A (Set As Digital) Activation Delay (If Source = User Config)	0 s		
348	Analogue Input B (Set As Digital) Source	0 (Input Source)		
349	Analogue Input B (Set As Digital) Polarity	0 (Polarity)		
350	Analogue Input B (Set As Digital) Action (If Source = User Config)	0 (Action)		
351	Analogue Input B (Set As Digital) Arming (If Source = User Config)	0 (Arming)		
352	Analogue Input B (Set As Digital) Activation Delay (If Source = User Config)	0 s		
353	Analogue Input C (Set As Digital) Source	0 (Input Source)		
354	Analogue Input C (Set As Digital) Polarity	0 (Polarity)		
355	Analogue Input C (Set As Digital) Action (If Source = User Config)	0 (Action)		
356	Analogue Input C (Set As Digital) Arming (If Source = User Config)	0 (Arming)		
357	Analogue Input C (Set As Digital) Activation Delay (If Source = User Config)	0 s		

ALARM ACTION		FLEXIBLE SENSOR ALARM ACTION		POWER UP MODE	
Index	Action	Index	Action	Index	Mode
0	Electrical Trip	0	None	0	Stop
1	Shutdown	1	Shutdown	1	Manual
2	Warning	2	Electrical Trip	2	Auto

CONFIGURATION PARAMETERS – OUTPUTS (PAGE 4)					
401	Digital Output A Source	0 (Output Source)	411	Digital Output F Source	0 (Output Source)
402	Digital Output A Polarity	0 (Output Polarity)	412	Digital Output F Polarity	0 (Output Polarity)
403	Digital Output B Source	0 (Output Source)	413	Digital Output G Source	0 (Output Source)
404	Digital Output B Polarity	0 (Output Polarity)	414	Digital Output G Polarity	0 (Output Polarity)
405	Digital Output C Source	0 (Output Source)	415	Digital Output H Source	0 (Output Source)
406	Digital Output C Polarity	0 (Output Polarity)	416	Digital Output H Polarity	0 (Output Polarity)
407	Digital Output D Source	0 (Output Source)	417	Digital Output I Source	0 (Output Source)
408	Digital Output D Polarity	0 (Output Polarity)	418	Digital Output I Polarity	0 (Output Polarity)
409	Digital Output E Source	0 (Output Source)	419	Digital Output J Source	0 (Output Source)
410	Digital Output E Polarity	0 (Output Polarity)	420	Digital Output J Polarity	0 (Output Polarity)

CONFIGURATION PARAMETERS – TIMERS (PAGE 5)					
501	Start Delay	513	Generator Transient Delay	525	Light Re-Strike Timer 4
502	Preheat Timer	514	Light Start-Up Timer 1	526	1st Up Timer
503	Crank Time	515	Light Start-Up Timer 2	527	1st Down Timer
504	Crank Rest Time	516	Light Start-Up Timer 3	528	Power Save Mode Delay
505	Smoke Limiting	517	Light Start-Up Timer 4	529	Deep Sleep Mode Delay
506	Smoke Limiting Off	518	Light Shutdown Timer 1	530	Page Timer
507	Safety On Delay	519	Light Shutdown Timer 2	531	Cooldown Idle Time
508	Warm Up Time	520	Light Shutdown Timer 3	532	Delay Crank
509	Return Delay	521	Light Shutdown Timer 4	533	Mains Supply Transient Delay
510	Cooling Time	522	Light Re-Strike Timer 1	534	Audible Alarm Timer Enable
511	ETS Solenoid Hold	523	Light Re-Strike Timer 2	535	Audible Alarm Timer Delay
512	Failed To Stop Delay	524	Light Re-Strike Timer 3		

CONFIGURATION PARAMETERS – GENERATOR (PAGE 6)					
601	Alternator Fitted	On (1), Off (0)	633	Low Current Alarm Enable	On (1), Off (0)
602	Alternator Poles	0	634	Low Current Alarm Action	0 (Action)
603	Under Voltage Shutdown Enable	On (1), Off (0)	635	Low Current Alarm Percentage	0%
604	Under Voltage Shutdown Trip	0 V	636	Low Current Alarm Delay	0 s
605	Under Voltage Warning Enable	On (1), Off (0)	637	Light 1 Current Rating	0.0 A
606	Under Voltage Warning Trip	0 V	638	Light 2 Current Rating	0.0 A
607	RESERVED		639	Light 3 Current Rating	0.0 A
608	Loading Voltage	0 V	640	Light 4 Current Rating	0.0 A
609	Over Voltage Warning Enable	On (1), Off (0)	641	Mains Low Voltage Alarm Enable	On (1), Off (0)
610	Over Voltage Warning Return	0 V	642	Mains Low Voltage Alarm Trip	0 V
611	Over Voltage Warning Trip	0 V	643	Mains Low Voltage Alarm Return	0 V
612	Over Voltage Shutdown Trip	0 V	644	Mains Low Voltage Warning Enable	On (1), Off (0)
613	Under Frequency Shutdown Enable	On (1), Off (0)	645	Mains Low Voltage Warning Trip	0 V
614	Under Frequency Shutdown Trip	0.0 Hz	646	Mains Low Voltage Warning Return	0 V
615	Under Frequency Warning Enable	On (1), Off (0)	647	Mains High Voltage Warning Enable	On (1), Off (0)
616	Under Frequency Warning Trip	0.0 Hz	648	Mains High Voltage Warning Return	0 V
617	Loading Frequency	0.0 Hz	649	Mains High Voltage Warning Trip	0 V
618	Nominal Frequency	0.0 Hz	650	Mains High Voltage Alarm Enable	On (1), Off (0)
619	Over Frequency Warning Enable	On (1), Off (0)	651	Mains High Voltage Alarm Return	0 V
620	Over Frequency Warning Return	0.0 Hz	652	Mains High Voltage Alarm Trip	0 V
621	Over Frequency Warning Trip	0.0 Hz	653	Mains Low Frequency Alarm Enable	On (1), Off (0)
622	Over Frequency Shutdown Enable	On (1), Off (0)	654	Mains Low Frequency Alarm Trip	0.0 Hz
623	Over Frequency Shutdown Trip	0.0 Hz	655	Mains Low Frequency Alarm Return	0.0 Hz
624	AC System	0 (AC System)	656	Mains Low Frequency Warning Enable	On (1), Off (0)
625	CT Enable	On (1), Off (0)	657	Mains Low Frequency Warning Trip	0.0 Hz
626	CT Primary	0 A	658	Mains Low Frequency Warning Return	0.0 Hz
627	Full Load Rating	0 A	659	Mains High Frequency Warning Enable	On (1), Off (0)
628	Immediate Over Current Enable	On (1), Off (0)	660	Mains High Frequency Warning Return	0.0 Hz
629	Delayed Over Current Alarm Enable	On (1), Off (0)	661	Mains High Frequency Warning Trip	0.0 Hz
630	Delayed Over Current Alarm Action	0 (Action)	662	Mains High Frequency Alarm Enable	On (1), Off (0)
631	Over Current Delay Time	0 s	663	Mains High Frequency Alarm Return	0.0 Hz
632	Over Current Trip	0 %	664	Mains High Frequency Alarm Trip	0.0 Hz

SENSOR TYPE		AC SYSTEM		DIGITAL INPUT ALARM ARMING	
Index	Type	Index	Type	Index	Arming
0	None	0	2 Phase 3 Wire (L1-L2)	0	Always
1	Digital Input	1	2 Phase 3 Wire (L1-L3)	1	From Safety On
2	Percentage Sensor	2	3 Phase 3 Wire	2	From Starting
3	Pressure Sensor	3	3 Phase 4 Wire	3	Never
4	Temperature Sensor	4	3 Phase 4 Wire Delta (L1-N-L2)		
		5	3 Phase 4 Wire Delta (L1-N-L2)		
		6	3 Phase 4 Wire Delta (L1-N-L2)		
		7	Single Phase 2 Wire		
		8	Single Phase 3 Wire (L1-L2)		
		9	Single Phase 3 Wire (L1-L3)		

CONFIGURATION PARAMETERS – ENGINE (PAGE 7)					
701	Start Attempts	0	717	High Battery Voltage Enable	On (1), Off (0)
702	Gas Choke Timer (Gas Engine Only)	0 s	718	High Battery Voltage Return	0.0 V
703	Gas On Delay (Gas Engine Only)	0 s	719	High Battery Voltage Trip	0.0 V
704	Gas Ignition Off Delay (Gas Engine Only)	0 s	720	High Battery Voltage Delay	0 s
705	Crank Disconnect On Oil Pressure Enable	On (1), Off (0)	721	Charge Alt Shutdown Enable	On (1), Off (0)
706	Check Oil Pressure Prior To Starting	On (1), Off (0)	722	Charge Alt Shutdown Trip	0.0 V
707	Crank Disconnect On Oil	0.00 Bar	723	Charge Alt Shutdown Delay	0 s
708	Crank Disconnect On Frequency	0.0 Hz	724	Charge Alt Warning Enable	On (1), Off (0)
709	Crank Disconnect On Engine Speed	0 RPM	725	Charge Alt Warning Trip	0.0 V
710	Under Speed Enable	On (1), Off (0)	726	Charge Alt Warning Delay	0 s
711	Under Speed Trip	0 RPM	727	Low Battery Engine Start Arming	On (1), Off (0)
712	Over Speed Trip	0 RPM	728	Low Battery Engine Start Threshold	0.0 V
713	Low Battery Voltage Enable	On (1), Off (0)	729	Low Battery Engine Start Delay	0 s
714	Low Battery Voltage Trip	0.0 V	730	Low Battery Engine Start Run Time	0 s
715	Low Battery Voltage Return	0.0 V	731	Auto Retry For Start Attempt Enable	On (1), Off (0)
716	Low Battery Voltage Delay	0 s	732	Auto Retry For Start Attempts	0

CONFIGURATION PARAMETERS – ALTERNATE CONFIGURATION (PAGE 8)				
800-867	For information on this section, refer to DSE Publication: 057-221 DSEL401 MKII Operators Manual			

CONFIGURATION PARAMETERS – SCHEDULER (PAGE 9)				
901	Enable Scheduler	On (1), Off (0)		
902	Scheduler Period	Weekly(0), Monthly(1), Daily(2)		
903, 908, 913, 918, 923, 928, 933, 938	Schedule Mode (Entry 1-8)	Off Load (0), On Load (1), Lights Only (2)		
904, 909, 914, 919, 924, 929, 934, 939	Start Time (Entry 1-8)	0:00:00		
905, 910, 915, 920, 925, 930, 935, 940	Day (Entry 1-8)	0 (1=Monday)		
906, 911, 916, 921, 926, 931, 936, 941	Week (Entry 1-8)	1, 2, 3 or 4		
907, 912, 917, 922, 927, 932, 937, 942	Duration (Entry 1-8)	0 s		

CONFIGURATION PARAMETERS – DATE AND TIME (PAGE 10)					
1001	Time of Day	0:00:00	1003	Month of Year	1-12
1002	Day of Month	1-31	1004	Year	0-99

CONFIGURATION PARAMETERS – MAINTENANCE ALARMS (PAGE 11)					
1101	Oil Maintenance Alarm Enable	On (1), Off (0)	1106	Air Maintenance Alarm Engine Hours	0 h
1102	Oil Maintenance Alarm Action	0 (Action)	1107	Fuel Maintenance Alarm Enable	On (1), Off (0)
1103	Oil Maintenance Alarm Engine Hours	0 h	1108	Fuel Maintenance Alarm Action	0 (Action)
1104	Air Maintenance Alarm Enable	On (1), Off (0)	1109	Fuel Maintenance Alarm Engine Hours	0 h
1105	Air Maintenance Alarm Action	0 (Action)			

DIGITAL INPUT POLARITY		OUTPUT POLARITY		FUEL SENSOR UNITS	
Index	Polarity	Index	Polarity	Index	Units
0	Close to Activate	0	Energise	0	Litres
1	Open to Activate	1	De-Energise	1	Imperial Gallons
				2	US Gallons

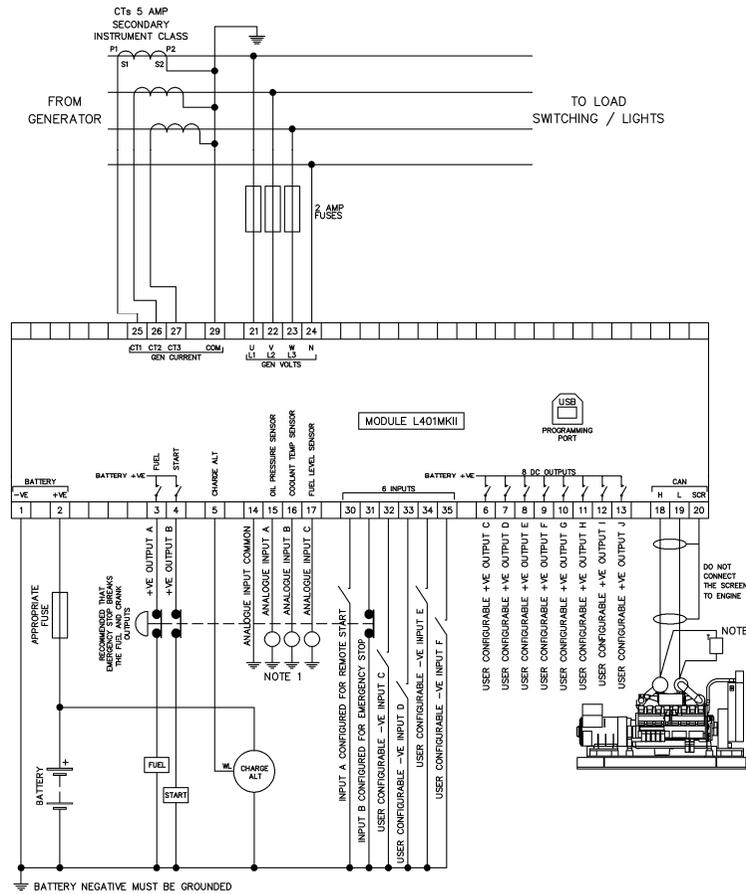
PRESSURE SENSOR LIST		TEMPERATURE SENSOR LIST		PERCENTAGE SENSOR LIST	
Index	Type	Index	Type	Index	Type
0	Not used	0	Not Used	0	Not Used
1	Dig Closed for Alarm	1	Dig Closed for Alarm	1	Dig Closed for Alarm
2	Dig Open for Alarm	2	Dig Open for Alarm	2	Dig Open for Alarm
3	VDO 5 Bar	3	VDO 120 °C	3	VDO Ohm (10-180)
4	VDO 10 Bar	4	Datcon High	4	VDO Tube (90-0)
5	Datcon 5 Bar	5	Datcon Low	5	US Ohm (240-33)
6	Datcon 10 Bar	6	Murphy	6	GM Ohm (0-90)
7	Datcon 7 Bar	7	Cummins	7	GM Ohm (0-30)
8	Murphy 7 Bar	8	PT100	8	Ford (73-10)
9	CMB812	9	Veglia	9	User Defined
10	Veglia	10	Beru		
11	User Defined	11	User Defined		

INPUT SOURCES					
0	User Configured	12	Lamp Test	24	Simulate Auto Button
1	Alarm Mute	13	Light Output Activation 1	25	Simulate Start Button
2	Alarm Reset	14	Light Output Activation 2	26	Smoke Limiting
3	Alternative Configuration	15	Light Output Activation 3	27	Maintenance Reset Oil
4	Auto Start Inhibit	16	Light Output Activation 4	28	Maintenance Reset Air
5	Coolant Temperature Switch	17	Low Fuel Level Switch	29	Maintenance Reset Fuel
6	Emergency Stop	18	Oil Pressure Switch	30	Master Fully Open
7	External Panel Lock	19	Override Fuel Shutdown	31	Master Fully Closed
8	Inhibit Light Output 1	20	Photocell Start	32	Holding Supports Open
9	Inhibit Light Output 2	21	Remote Start Off Load	33	Controlled Stop
10	Inhibit Light Output 3	22	Remote Start On load	34	Mains Supply Active
11	Inhibit Light Output 4	23	Simulate Stop Button		

CONFIGURATION PARAMETERS – ANALOGUE INPUTS (PAGE 12)		
1201	Analogue Input A Sensor Type	0 (Sensor Type)
1202	Analogue Input A Sensor Selection	0 (Pressure Sensor List)
1203	Low Oil Pressure Enable	On (1), Off (0)
1204	Low Oil Pressure Trip	0 Bar
1205	Oil Pressure Sensor Open Circuit	On (1), Off (0)
1206	Analogue Input B Sensor Type	0 (Sensor Type)
1207	Analogue Input B Sensor Selection	0 (Temperature Sensor List)
1208	High Engine Temperature Trip	0.00 °C
1209	Temperature Sensor Open Circuit	On (1), Off (0)
1210	Analogue Input C Sensor Usage	Flexible Sensor (1), Fuel Level Sensor (0)
1211	Analogue Input C Sensor Type	0 (Sensor Type)
1212	Analogue Input C Sensor Selection	0 (Pressure / Temperature / Percentage Sensor List)
1213	Flexible Sensor C Arming	0 (Arming)
1214	Flexible Sensor C Low Alarm Action	0 (Action)
1215	Flexible Sensor C Low Alarm Trip	0 % / Bar / °C
1216	RESERVED	
1217	Flexible Sensor C Low Pre-Alarm Enable	On (1), Off (0)
1218	Flexible Sensor C Low Pre-Alarm Trip	0 % / Bar / °C
1219	Flexible Sensor C Low Pre-Alarm Return	0 % / Bar / °C
1220	RESERVED	
1221	Flexible Sensor C High Pre-Alarm Enable	On (1), Off (0)
1222	Flexible Sensor C High Pre-Alarm Return	0 % / Bar / °C
1223	Flexible Sensor C High Pre-Alarm Trip	0 % / Bar / °C
1224	RESERVED	
1225	RESERVED	
1226	Flexible Sensor C High Alarm Action	0 (Action)
1227	Flexible Sensor C High Alarm Trip	0 % / Bar / °C
1228	RESERVED	
1229	RESERVED	
1230	Fuel Sensor C Low Shutdown Enable	On (1), Off (0)
1231	Fuel Sensor C Low Shutdown Trip	0 %
1232	Fuel Sensor C Low Shutdown Delay	0 s
1233	Fuel Sensor C Low Pre-Alarm Enable	On (1), Off (0)
1234	Fuel Sensor C Low Pre-Alarm Trip	0 %
1235	Fuel Sensor C Low Pre-Alarm Return	0 %
1236	Fuel Sensor C Low Pre-Alarm Delay	0 s
1237	Fuel Sensor C High Pre-Alarm Enable	On (1), Off (0)
1238	Fuel Sensor C High Pre-Alarm Return	0 %
1239	Fuel Sensor C High Pre-Alarm Trip	0 %
1240	Fuel Sensor C High Pre-Alarm Delay	0 s
1241	RESERVED	
1242	Fuel Sensor C High Alarm Action	0 (Action)
1243	Fuel Sensor C High Alarm Trip	0 %
1244	Fuel Sensor C High Alarm Delay	0 s
1245	Fuel Sensor Units	0 (Fuel Sensor Units)
1246	Fuel Tank Size	0

OUTPUT SOURCES			
0	Not Used	31	Fail To Stop
1	Air Filter Maintenance	32	Fuel Filter Maintenance
2	Air Flap Relay	33	Fuel Relay
3	Audible Alarm	34	Fuel Sender Trip 1
4	System In Auto Mode	35	Fuel Sender Trip 2
5	Battery Over Volts Warning	36	Fuel Sender Trip 3
6	Battery Under Volts Warning	37	Fuel Sender Trip 4
7	CAN ECU Data Fail	38	Gas Choke On
8	CAN ECU Error	39	Gas Ignition
9	CAN ECU Fail	40	Generator Available
10	CAN ECU Power	41	Generator Over Voltage Shutdown
11	CAN ECU Stop	42	Generator Under Voltage Shutdown
12	Charge Alternator Shutdown	43	Generator Over Current
13	Charge Alternator Warning	44	Generator Delayed Over Current
14	Common Alarm	45	High Coolant Temperature (Shutdown)
15	Common Electrical Trip	46	Light Output 1
16	Common Shutdown	47	Light Output 2
17	Common Warning	48	Light Output 3
18	Cooling Down	49	Light Output 4
19	Digital Input A	50	Low Oil Pressure (Shutdown)
20	Digital Input B	51	System In Manual Mode
21	Digital Input C	52	Oil Filter Maintenance
22	Digital Input D	53	Oil Pressure Open Circuit
23	Digital Input E	54	Generator Over Frequency Shutdown
24	Digital Input F	55	Over Speed Shutdown
25	Analogue Input A (Digital)	56	Preheat During Preheat Timer
26	Analogue Input B (Digital)	57	Preheat Until End of Crank
27	Analogue Input C (Digital)	58	Preheat Until End of Safety Timer
28	Emergency Stop	59	Preheat Until End of Warning
29	Emergency To Stop	60	Smoke Limiting
30	Fail To Start	61	Start Relay
62	System In Stop Mode	63	Temperature Sender Open Circuit
64	Generator Under frequency Shutdown	65	Under Speed Shutdown
66	Generator Over Frequency Overshoot	67	Over Speed Overshoot
68	Low Current Alarm	69	Display Heater Fitted & Active
70	Flexible Sensor C High Shutdown	71	Flexible Sensor C High Warning
72	Flexible Sensor C Low Warning	73	Flexible Sensor C Low Shutdown
74	Fuel Sensor High Shutdown	75	Fuel Sensor High Warning
76	Fuel Sensor Low Warning	77	Fuel Sensor Low Shutdown
78	Mast Up	79	Mast Down
80	Mains Supply High Frequency	81	Mains Supply Low Frequency
82	Mains Supply High Voltage	83	Mains Supply Low Voltage
84	Gen/Mains High Frequency	85	Gen/Mains High Voltage
86	Gen/Mains Low Frequency	87	Gen/Mains Low Voltage
88	Combined Mains Supply Failure	89	Combined Gen/Mains Failure
90	Mains Supply Active		

TYPICAL WIRING DIAGRAM



NOTE 1: THESE GROUND CONNECTIONS MUST BE ON THE ENGINE BLOCK AND TO THE SENSOR BODIES. THE GROUND WIRE TO TERMINAL 14 MUST NOT BE USED TO PROVIDE A GROUND CONNECTION TO ANY OTHER DEVICE.
 NOTE 2: 120 R TERMINATING RESISTOR MAY BE REQUIRED EXTERNALLY, SEE ENGINE MANUFACTURERS LITERATURE.

NOTE: A larger version of the typical wiring diagram is included in the products operator manual. Refer to DSE Publication: **057-221 DSEL401MKII Operators Manual**

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 24 AWG to 12 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
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 Without Heated Display	• -22 °F to +158 °F (-30 °C to +70 °C)
Operating Temperature With Heated Display	• -40 °F to +158 °F (-40 °C to +70 °C)
Storage Temperature	• -40 °F to +176 °F (-40 °C to +80 °C)



EDITING A PARAMETER

- Press the (-) and (✓) buttons together to enter the editor selection screen.
- Press the (up) or (down) buttons to change between (User) or (Configuration Editor) icons.
- Press the (✓) button to enter the required editor.
- Press the (up) or (down) navigation buttons to cycle through the front panel editor in increments of 100.
- Press the (+) or (-) navigation buttons to cycle through the front panel editor in increments of 1.
- When viewing the parameter to be edited, press the (✓) button, the value begins to flash.
- Press the (+) or (-) buttons to adjust the value to the required setting.
- Press the (✓) button the save the current value, the value ceases flashing.
- Press and hold the (✓) button to save and exit the editor.

NOTE: Pressing and holding the (+) or (-) buttons give auto-repeat functionality. Values are changed quickly by holding the buttons for a prolonged period of time.

DIMENSIONS	PANEL CUTOUT	TERMINALS
140 mm x 113 mm x 43 mm (5.5" x 4.4" x 1.7")	118 mm x 92 mm (4.6" x 3.6")	Tightening Torque: 0.5 Nm (4.5 lb-in) Conductor Size: 0.5 mm ² to 2.5 mm ² (AWG 24 to AWG 10)

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