

CONFIGURATION PARAMETERS – MODULE (PAGE 1)

101	Contrast	000 (%)	106	Protected start enable	On (1), off (0)	
102	Fast loading enabled	On (1), off (0)	107	RESERVED		
103	RESERVED		108	Event log display format	On (1), off (0)	
104	Lamp test at startup	On (1), off (0)	109	Start in auto	On (1), off (0)	
105	Power save mode enable	On (1), off (0)	110	Diagnostic Trouble Code string (english only) enable	On (1), off (0)	CAN

CONFIGURATION PARAMETERS – APPLICATION (PAGE 2) (CAN VERSION MODULE ONLY)

201	Alternate 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	0:00	

CONFIGURATION PARAMETERS – INPUTS (PAGE 3)

301	Low oil pressure enable		On (1), off (0)			
302	Low oil pressure trip		0.00 bar			
303	High engine temperature trip		00 deg c			
304	Digital input A source		0 (input source)			
305	Digital input A polarity		0 (polarity)			
306	Digital input A action (if source = user config)		0 (action)			
307	Digital input A arming (if source = user config)		0 (arming)			
308	Digital input A activation delay (if source = user config)		0:00			
309	Digital input B source		0 (input source)			
310	Digital input B polarity		0 (polarity)			
311	Digital input B action (if source = user config)		0 (action)			
312	Digital input B arming (if source = user config)		0 (arming)			
313	Digital input B activation delay (if source = user config)		0:00			
314	Digital input C source		0 (input source)			
315	Digital input C polarity		0 (polarity)			
316	Digital input C action (if source = user config)		0 (action)			
317	Digital input C arming (if source = user config)		0 (arming)			
318	Digital input C activation delay (if source = user config)		0:00			
319	Digital input D source		0 (input source)			
320	Digital input D polarity		0 (polarity)			
321	Digital input D action (if source = user config)		0 (action)			
322	Digital input D arming (if source = user config)		0 (arming)			
323	Digital input D activation delay (if source = user config)		0:00			
324	Analogue input A sensor type		0 (sensor type)			
325	Analogue input A sensor selection (pressure senor list)		0 (pressure sensor)			
326	Analogue input A (set as digital) source (oil pressure sender)		0 (input source)			
327	Analogue input A (set as digital) polarity		0 (polarity)			
328	Analogue input A (set as digital) action (if source = user config)		0 (action)			
329	Analogue input A (set as digital) arming (if source = user config)		0 (arming)			
330	Analogue input A (set as digital) activation delay (if source = user config)		0:00			
331	Analogue input B sensor type		0 (sensor type)			
332	Analogue input B sensor selection (temperature senor list)		0 (temp sensor)			
333	Analogue input B (set as digital) source (temperature sender)		0 (input source)			
334	Analogue input B polarity (set as digital)		0 (polarity)			
335	Analogue input B (set as digital) action (if source = user config)		0 (action)			
336	Analogue input B (set as digital) arming (if source = user config)		0 (arming)			
337	Analogue input B (set as digital) activation delay (if source = user config)		0:00			
338	Analogue input C sensor type		0 (sensor type)			
339	Analogue input C sensor selection (pressure / temp / percentage)		0 (sensor)			
340	Analogue input C (set as digital) source (flexible sender)		0 (input source)			
341	Analogue input C (set as digital) polarity		0 (polarity)			
342	Analogue input C (set as digital) action (if source = user config)		0 (action)			
343	Analogue input C (set as digital) arming (if source = user config)		0 (arming)			
344	Analogue input C (set as digital) activation delay (if source = user config)		0:00			
345	Oil pressure sender open circuit alarm		On (1), off (0)			
346	Temperature sender open circuit alarm		On (1), off (0)			

CONFIGURATION PARAMETERS – OUTPUTS (PAGE 4)

401	Digital output A source	0 (output source)	CAN
402	Digital output A polarity	0 (output source polarity)	CAN
403	Digital output B source	0 (output source)	CAN
404	Digital output B polarity	0 (output source polarity)	CAN
405	Digital output C source	0 (output source)	CAN
406	Digital output C polarity	0 (output source polarity)	CAN
407	Digital output D source	0 (output source)	CAN
408	Digital output D polarity	0 (output source polarity)	CAN
409	Digital output E source	0 (output source)	CAN
410	Digital output E polarity	0 (output source polarity)	CAN
411	Digital output F source	0 (output source)	CAN
412	Digital output F polarity	0 (output source polarity)	CAN

CONFIGURATION PARAMETERS – TIMERS (PAGE 5)

501	RESERVED	507	Smoke limiting off	513	Failed to stop delay
502	Start delay	508	Safety on delay	514	Generator transient delay
503	Prefheat timer	509	Warm up time	515	Power save mode delay
504	Crank time	510	Return delay	516	Transfer time
505	Crank rest time	511	Cooling time	517	Breaker trip pulse
506	Smoke limiting	512	Ets solenoid hold	518	Breaker close pulse

CONFIGURATION PARAMETERS – GENERATOR (PAGE 6)

601	Alternator fitted	On (1), off (0)	609	Under frequency enable	On (1), off (0)
602	Alternator poles	0	610	Under frequency level	0.0 Hz
603	Reserved		611	Loading frequency	0.0 Hz
604	Reserved		612	Nominal frequency	0.0 Hz
605	Under voltage enabled	On (1), off (0)	613	Over frequency enable	On (1), off (0)
606	Under voltage level	0 V	614	Over frequency trip	0.0 Hz
607	Loading voltage	0 V	615	AC system	AC system (see table below)
608	Over voltage level	0 V			

MAINS (PAGE 7) is not available on DSE4410 controllers.

CONFIGURATION PARAMETERS – ENGINE (Page 8)

801	Magnetic pickup fitted	On (1), off (0)	818	Low battery volts trip	00.0 V
802	Flywheel teeth	000	819	Low battery volts return	00.0 V
803	Start Attempts	0	820	Low battery volts delay	0:00:00
804	RESERVED		821	High battery volts enable	On (1), off (0)
805	RESERVED		822	High battery volts return	00.0 V
806	Gas choke timer (Gas engine only)	0:00	823	High battery volts warning	00.0 V
807	Gas on delay (Gas engine only)	0:00	824	High battery volts warning delay	0.0 V
808	Gas ignition off delay (Gas engine only)	0:00	825	Charge alt shutdown enable	On (1), off (0)
809	Crank disconnect on Oil pressure enable	On (1), off (0)	826	Charge alt shutdown trip	00.0 V
810	Check oil pressure prior to starting	On (1), off (0)	827	Charge alt shutdown trip delay	0:00:00
811	Crank disconnect on Oil threshold	0.0 Bar	828	Charge alt warning trip enable	On (1), off (0)
812	Crank disconnect on frequency	0.0Hz	829	Charge alt warning trip	00.0 V
813	Crank disconnect on Engine Speed	000 rpm	830	Charge alt warning trip delay	0:00:00
814	Under speed enable	On (1), off (0)	831	Low battery start Arming	On (1), off (0)
815	Under speed trip	0000 rpm	832	Low battery start Threshold	00.0 V
816	Over speed trip	0000 rpm	833	Low battery start Delay	0:00:00
817	Low battery volts enable	On (1), off (0)	834	Low battery start Run time	0:00:00

CONFIGURATION PARAMETERS – ALTERNATIVE CONFIGURATION (Page 9)

901	Alt config - Default configuration	Main (0), Alternative (1)
902	Alt config - Enable configuration	On (1), Off (0)
903	Alt config - Alternative Engine Speed	On (1), Off (0)
904	Alt config - Under Voltage trip level	On (1), Off (0)
905	Alt config - Under Voltage trip level	0 V
906	Alt config - Loading Voltage	0 V
907	Alt config - Over Voltage trip level	0 V
908	Alt config - Under Frequency enabled	On (1), Off (0)
909	Alt config - Under Frequency trip level	0.0 Hz
910	Alt config - Loading Frequency	0.0 Hz
911	Alt config - Nominal Frequency	0.0 Hz
912	Alt config - Over Frequency enabled	On (1), Off (0)
913	Alt config - Over Frequency trip level	0.0 Hz
914	Alt config - AC System	AC system (see table)
915-928	RESERVED	
929	Alt config - Alternative under speed shutdown enable	On (1), Off (0)
930	Alt config - Alternative under speed shutdown trip	0000 rpm
931	Alt config - Alternative over speed shutdown trip	0000 rpm

CAN = 44xx – 02 (CAN) option only = 44xx – 01 (Magnetic pickup) option only

Output source list overleaf...

CONFIGURATION PARAMETERS – FLEXIBLE SENSOR (PAGE 10)

1001	Flexible sensor alarm arming	0 (Arming)
1002	Flexible sensor - Low alarm enable	0 (Action)
1003	Flexible sensor - Low alarm trip (units depend upon sensor type)	0 % / 0.00 bar / 0 °C
1004	Flexible sensor - High alarm enable	0 (Action)
1005	Flexible sensor - High alarm trip (units depend upon sensor type)	0 % / 0.00 bar / 0 °C
1006	Flexible sensor - Low warning enable	On (1), Off (0)
1007	Flexible sensor - Low warning trip (units depend upon sensor type)	0 % / 0.00 bar / 0 °C
1008	Flexible sensor - High warning enable	On (1), Off (0)
1009	Flexible sensor - High warning trip (units depend upon sensor type)	0 % / 0.00 bar / 0 °C

CONFIGURATION PARAMETERS – SCHEDULER (Page 11)

1101	Enable scheduler	On (1), off (0)
1102	On or off load	On (1), off (0)
1103	Start time	0:00:00

CONFIGURATION PARAMETERS – TIME AND DAY (Page 12)

1201	Time of day	0:00
1202	Day of week	0 (Day, 1=Monday)

Parameters with multiple choices use the following identification tables for the parameter values :

INPUT SOURCE LIST

0	User Configured	8	Emergency Stop	16	Oil Pressure Switch
1	Alarm Mute	9	External Panel Lock	17	Remote Start Off Load
2	Alarm Reset	10	RESERVED	18	Remote Start On Load
3	Alternative Configuration	11	Generator load inhibit	19	RESERVED
4	RESERVED	12	Lamp Test	20	Smoke Limiting
5	Auto start inhibit	13	Low Fuel Level Switch	21	Close Generator
6	RESERVED	14	RESERVED	22	Open Generator
7	Coolant Temperature Switch	15	RESERVED		

INPUT ACTION LIST

Index	Action
0	Electrical Trip
1	Shutdown
2	Warning

INPUT POLARITY LIST

Index	Action
0	Close to Activate
1	Open to Activate

CAN DATA FAIL ACTION

Index	Action
0	None
1	Shutdown

FLEXIBLE SENSOR ALARM ACTION LIST

Index	Type

<tbl_r cells="2" ix="1" maxcspan="1" max

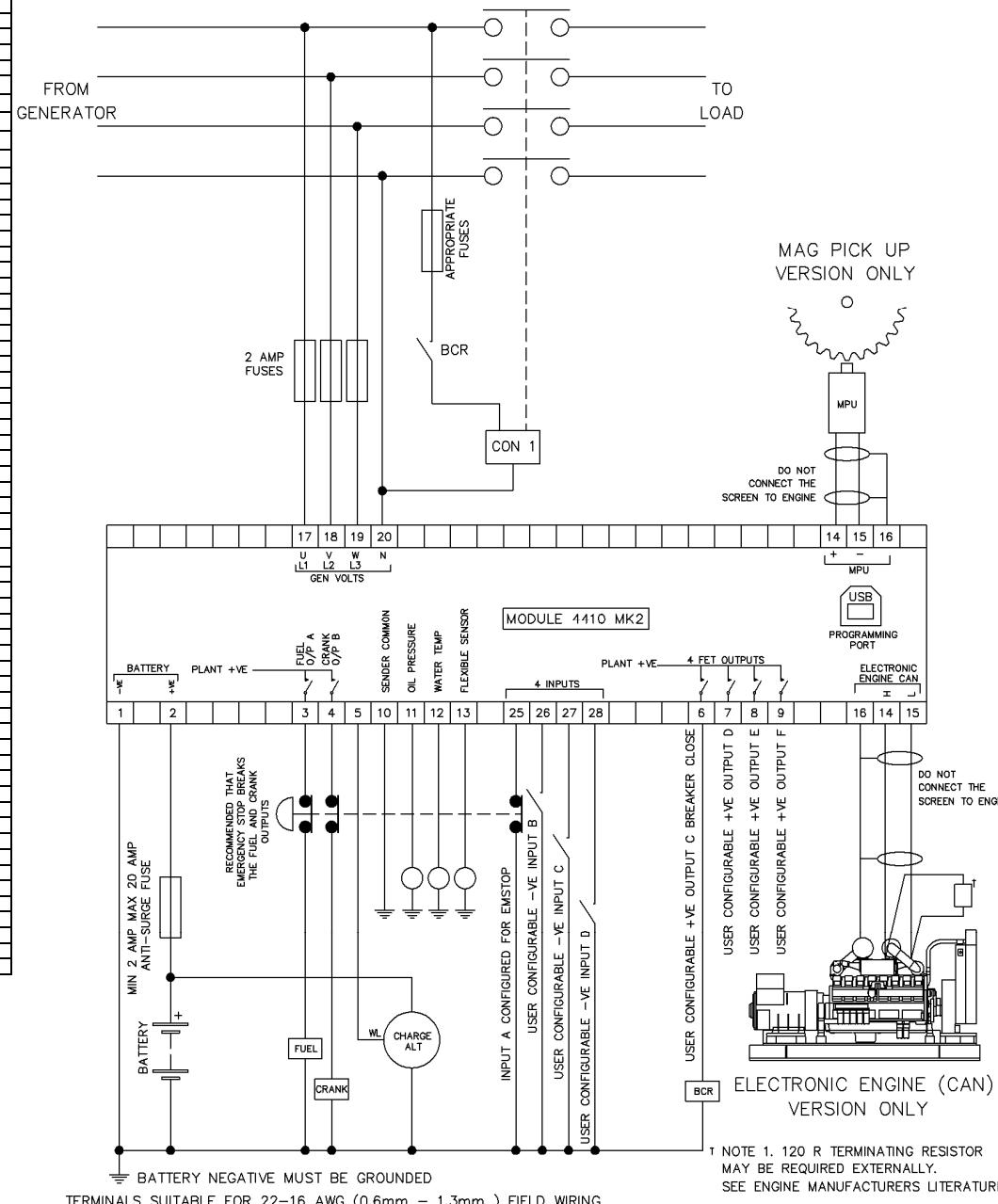
OUTPUT SOURCE LIST	
0	Not used
1	RESERVED
2	RESERVED
3	Audible Alarm
4	Battery over volts warning
5	Battery under volts warning
6	CAN ECU data fail
7	CAN ECU error
8	CAN ECU fail
9	CAN ECU power
10	CAN ECU stop
11	Charge alternator shutdown
12	Charge alternator warning
13	Close Gen output
14	Close Gen output pulse
15	Close Mains output
16	Close Mains output pulse
17	Combined mains failure
18	Common Alarm
19	RESERVED
20	Common Shutdown
21	Common Warning
22	RESERVED
23	RESERVED
24	RESERVED
25	RESERVED
26	RESERVED
27	RESERVED
28	RESERVED
29	Emergency stop
30	Engage to stop
31	RESERVED
32	RESERVED
33	Fuel relay
34	Gas choke on
35	Gas ignition
36	Generator Available
37	RESERVED
38	RESERVED
39	RESERVED
40	RESERVED
41	Low fuel level
42	RESERVED
43	RESERVED
44	RESERVED
45	RESERVED
46	RESERVED
47	Open Gen Output
48	Open Gen Output pulse
49	RESERVED
50	RESERVED
51	RESERVED
52	RESERVED
53	Preheat During Preheat Timer
54	Preheat Until End of Crank
55	Preheat Until End of Safety Timer
56	Preheat Until End of Warming Timer
57	Smoke limiting
58	Start relay
59	RESERVED
60	RESERVED
61	RESERVED

44xx - 02 (CAN option) only

44xx - 01 (Magnetic pickup option) only

CAN

TYPICAL WIRING DIAGRAM



DEEP SEA ELECTRONICS

DSE4410Mk2 INSTALLATION INSTRUCTIONS

This instruction sheet is for DSE4410Mk2 controllers only. For DSE4410 Mk1 controllers use DSE publication 053-056

ACCESSING THE FRONT PANEL 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 Down buttons simultaneously. The configuration icon is displayed, along with the first configurable parameter.

EDITING A PARAMETER

Press to select the required 'page' as detailed in the configuration tables.

Press (+) to select the next parameter or (-) to select the previous parameter within the current page.

When viewing the parameter to be changed, press the button. The value begins to flash.

Press (+) or (-) to adjust the value to the required setting.

Press to save the current value, the value ceases flashing.

Press and hold the button to exit the editor, the configuration icon will be removed from the display.

NOTE: - Pressing and holding the + / - buttons will give auto-repeat functionality. Large values can be changed quicker by holding the buttons for a prolonged period. For instance large timers increment in 1 second steps to 1 minute, then in 30 second steps to 1 hour, then in 30 minute steps.

DIMENSIONS

180mm x 116mm x 42mm (7.1" x 4.6" x 1.7")

PANEL CUTOUT

154mm x 98mm (6" x 3.9")

Deep Sea Electronics Plc.

Tel: +44 (0)1723 890099

Fax: +44 (0)1723 893303

Email: support@deepseapl.com

Web: www.deepseapl.com

Deep Sea Electronics Inc.

Phone: +1 (815) 316-8706

Fax: +1 (815) 316-8708

TOLL FREE (USA only):

Tel: 1 866 636 9703

Email: support@deepseausa.com

Web: www.deepseausa.com