

CONFIGURATION PARAMETERS – MODULE (PAGE 1)					
101	Contrast	000 (%)	106	RESERVED	
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 J1939

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	Output A source	0 (output source)	CAN J1939	413	Output G source	0 (output source)
402	Output A polarity	0 (output polarity)	CAN J1939	414	Output G polarity	0 (output polarity)
403	Output B source	0 (output source)	CAN J1939	415	Output H source	0 (output source)
404	Output B polarity	0 (output polarity)	CAN J1939	416	Output H polarity	0 (output polarity)
405	Output C source	0 (output source)		417	LED 1 source	0 (output source)
406	Output C polarity	0 (output polarity)		418	LED 1 polarity	0 (output polarity)
407	Output D source	0 (output source)		419	LED 2 source	0 (output source)
408	Output D polarity	0 (output polarity)		420	LED 2 polarity	0 (output polarity)
409	Output E source	0 (output source)		421	LED 3 source	0 (output source)
410	Output E polarity	0 (output polarity)		422	LED 3 polarity	0 (output polarity)
411	Output F source	0 (output source)		423	LED 4 source	0 (output source)
412	Output F polarity	0 (output polarity)		424	LED 4 polarity	0 (output polarity)

CONFIGURATION PARAMETERS – TIMERS (PAGE 5)					
501	Mains transient delay	507	Smoke limiting off	513	Failed to stop delay
502	Start delay	508	Safety on delay	514	Generator transient delay
503	Prefeat 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

CAN = 71xx - 02 (CAN) option only

= 71xx -01 (Magnetic pickup) option on!

Output source list overleaf...

CONFIGURATION PARAMETERS – GENERATOR (PAGE 6)					
601	Alternator fitted	On (1), off (0)	612	Nominal frequency	0.0 Hz
602	Alternator poles	0	613	Over frequency enable	On (1), off (0)
603	RESERVED		614	Over frequency trip	0.0 Hz
604	RESERVED		615	AC system	AC system (see table)
605	Under voltage enabled	On (1), off (0)	616	CT Primary	0 (Amps)
606	Under voltage level	0 V	617	Full load rating	0 (Amps)
607	Loading voltage	0 V	618	Immediate Overcurrent	On (1), off (0)
608	Over voltage level	0 V	619	Overcurrent delayed alarm enable	On (1), off (0)
609	Under frequency enable	On (1), off (0)	620	Overcurrent delayed alarm action	0 (Action)
610	Under frequency level	0.0 Hz	621	Overcurrent delay	0.00:00
611	Loading frequency	0.0 Hz	622	Overcurrent trip	0 (%)

CONFIGURATION PARAMETERS – MAINS (PAGE 7)					
701	AC system	AC system (see table)	709	Over voltage level	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 level	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 level	0.0 Hz
708	Over voltage return	0 V			

CONFIGURATION PARAMETERS – ENGINE (PAGE 8)					
801	Magnetic pickup fitted	On (1), off (0)	818	Low battery volts trip	0.0 V
802	Flywheel teeth	000	819	Low battery volts return	0.0 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	0.0 V
806	Gas choke timer (Gas engine only)	0:00	823	High battery volts warning	0.0 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	0.0 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	On (1), off (0)
812	Crank disconnect on frequency	0.0Hz	829	Charge alt warning trip	0.0 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	On (1), off (0)
815	Under speed trip	0000 rpm	832	Low battery start Threshold	0.0 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	Default Configuration		Main (1), Alternative (0)		
902	Alt config - Enable configuration		On (1), off (0)		
903	Alt config - Alternative engine speed		On (1), off (0)	CAN J1939	
904	Alt config - Under voltage shutdown enable		On (1), off (0)		
905	Alt config - Under voltage trip		On (1), off (0)		
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 - CT Primary		0 (Amps)		
915	Alt config - Full load rating		0 (Amps)		
916	Alt config - Immediate Overcurrent		On (1), off (0)		
917	Alt config - Overcurrent delayed alarm		On (1), off (0)		
918	Alt config - Overcurrent delayed alarm action		0 (Action)		
919	Alt config - Overcurrent delay		0.00:00		
920	Alt config - Overcurrent trip		0 (%)		
921	Alt config - Generator AC system		0 (AC system)		
922	Alt config - Mains failure detection		On (1), off (0)		
923	Alt config - Immediate mains dropout		On (1), off (0)		
924	Alt config - Mains under volt enable		On (1), off (0)		
925	Alt config - Mains under volt trip		0 V		
926	Alt config - Mains under volt return		0 V		
927	Alt config - Mains over volt enable		On (1), off (0)		
928	Alt config - Mains over volt return		0 V		
929	Alt config - Mains over volt trip		0 V		

Continued in next column...

CONFIGURATION PARAMETERS – ALTERNATIVE CONFIGURATION (PAGE 9 CONTINUED)					
930	Alt config - Mains under frequency enable		On (1), off (0)		
931	Alt config - Mains under frequency trip		0.0 Hz		
932	Alt config - Mains under frequency return		0.0 Hz		
933	Alt config - Mains over frequency enable		On (1), off (0)		
934	Alt config - Mains over frequency return		0.0 Hz		
935	Alt config - Mains over frequency trip		0.0 Hz		
936	Alt config - Alternative under speed shutdown enable		On (1), off (0)		
937	Alt config - Alternative under speed shutdown trip		0000 rpm		
938	Alt config - Alternative over speed shutdown trip		0000 rpm		

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		</td

OUTPUT SOURCE LIST	
0	Not used
1	Air flap relay (1)
2	Alarm safety on alarms
3	Audible alarm
4	Battery over volts warning
5	Battery under volts warning
6	Can ECU data fail CAN _{ECU}
7	Can ECU error CAN _{ECU}
8	Can ECU fail CAN _{ECU}
9	Can ECU power CAN _{ECU}
10	Can ECU stop CAN _{ECU}
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	Common electrical trip
20	Common shutdown
21	Common warning
22	Cooling down
23	Digital input A
24	Digital input B
25	Digital input C
26	Digital input D
27	Digital input E
28	Digital input F
29	Emergency stop
30	Energise to stop
31	Fail to come to rest
32	Fail to start
33	Fuel relay
34	Gas choke on
35	Gas ignition
36	Generator available
37	Generator over voltage shutdown
38	RESERVED
39	RESERVED
40	Loss of magnetic pickup signal
41	Low fuel level
42	Low oil pressure (shutdown)
43	Mains high frequency
44	Mains high voltage
45	Mains low frequency
46	Mains low voltage
47	Open gen output
48	Open gen output pulse
49	Open mains output
50	Open mains output pulse
51	Over frequency shutdown
52	Over speed shutdown
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	Under frequency shutdown
60	Under speed shutdown
61	Waiting for manual restore

71xx - 02 (CAN option) only



71xx - 01 (Magnetic pickup option) only

DIMENSIONS AND MOUNTING

For flat surface mounting in a type 1 enclosure to meet UL requirements.

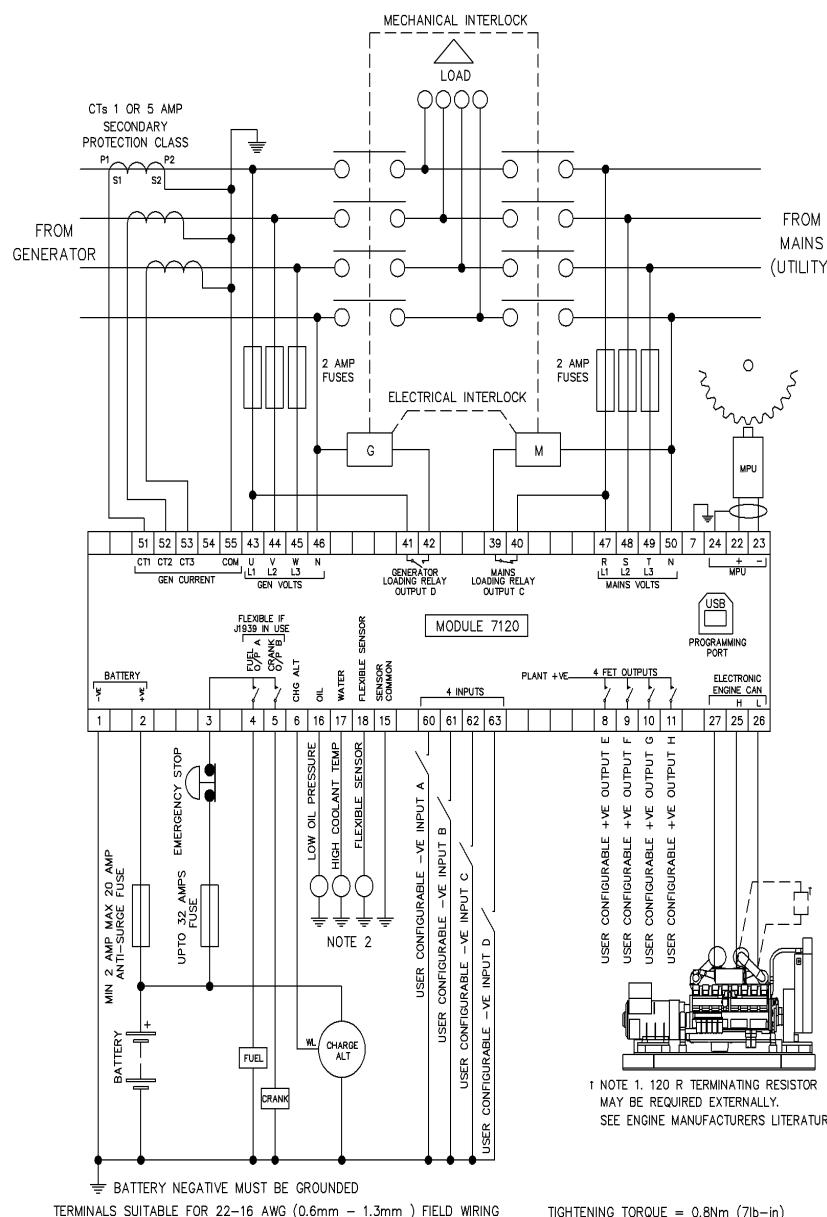
DIMENSIONS

240.0mm x 181.1mm x 41.7mm
(9.4" x 7.1" x 1.6")

PANEL CUTOUT

220mm x 160mm
(8.7" x 6.3")

TYPICAL WIRING DIAGRAM



DSE7120 INSTALLATION INSTRUCTIONS

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 or 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 the 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:- Large values can be changed quicker by holding the or buttons for a prolonged period. 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.

NOTE:- Engine type selection is factory set for a conventional diesel engine. Other types are selected using the DSE Configuration Suite.

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