		on Parameters – M								
101	Cont		0 (9		118			eed Control		On (1), Off (0)
102		Loading Enabled		(1), Off (0					On (1), Off (0)	
103		arnings Latched		(1), Off (0				quence Control Di		On (1), Off (0)
104		Test At Startup		(1), Off (0		Manual		spiay	On (1), Off (0)	
105		er Save Mode Ena	ble On	(1), Off (0	) 122			Control Display		On (1), Off (0)
106 107		Sleep Mode Enalected Start Enable		(1), Off (0 (1), Off (0		Generat Generat				On (1), Off (0) On (1), Off (0)
108		t Log Display Forn		(1), Off (0				spiay		
				ower Up						On (1), Off (0)
109	Powe	er Up Mode	Mo		126	kW Disp	lay			On (1), Off (0)
110	DTC	String Enable		(1), Off (0	) 127	kvar Dis	nlav			On (1), Off (0)
		rotected								
111		tenance Reset	On	(1), Off (0	) 128	kV A Dis	splay			On (1), Off (0)
112		Button Cooldown	On	(1), Off (0	) 129	pf Displa	ay			On (1), Off (0)
113	Use	Module Oil Pressu	re On	(1), Off (0	) 130	kW h Di	splay			On (1), Off (0)
114	Use I	Module Coolant Te		(1), Off (0		kvar h D	isplay			On (1), Off (0)
115	Use I	Module Engine Ho	urs On	(1), Off (0	) 132	kV A h [				On (1), Off (0)
116		Module RPM		(1), Off (0	) 133	Mains S	upply Vo	oltage Display		On (1), Off (0)
117	Use I	Module Charge Alt	On	(1), Off (0	) 134	Mains S	upply Hz	z Display		On (1), Off (0)
onfig	uratio	on Parameters - 0	CAN App	lication (	Page 2)	)				
201	CAN	Alternative Engine	Speed	On (1),	Off (0)	203	CAN E	CU Data Fail Action	on	0 (Action)
202		ECU Data Fail En			Off (0)	204		CU Data Fail Dela		0 s
onfia	uratio	on Parameters – D	Digital In	puts (Pac	ie 3)					
30		Low Fuel Shutdov							On (1	), Off (0)
302		Low Fuel Shutdov							0 %	
30:	_	Low Fuel Shutdov							0 s	
304		Low Fuel Shutdov								), Off (0)
30		Low Fuel Shutdov							0 %	
30	6	Low Fuel Shutdov							0 s	
30		Low Fuel Shutdov	vn Light	Output 3 E	Enable				On (1	), Off (0)
30		Low Fuel Shutdov						-	0 %	
309		Low Fuel Shutdov							0 s	
310	0	Low Fuel Shutdov							On (1	), Off (0)
31		Low Fuel Shutdov							0 %	
312		Low Fuel Shutdov		Output 4 7	imer				0 s	
31:		Digital Input A So								out Source)
314		Digital Input A Po								larity)
31		Digital Input A Ac							0 (Ac	
310		Digital Input A Arr							0 (An	ming)
31		Digital Input A Ac		elay (If S	ource =	User Cor	ntig)		0 s	
318		Digital Input B So								out Source)
319		Digital Input B Polarity 0 (Polarity)  Digital Input B Action (If Source = User Config) 0 (Action)								
32										
								0 (An	illing)	
32:		Digital Input B Activation Delay (If Source = User Config) 0 s  Digital Input C Source 0 (Input Source						out Course)		
32		Digital Input C So								larity)
32		Digital Input C Ac		ource = Ll	ser Con	fig)			0 (Ac	
32		Digital Input C Arr							0 (Arı	
32		Digital Input C Ac					ofia)		0 (7 til	illing/
32		Digital Input D So		ociay (ii o	ource –	0301 001	ilig)			out Source)
329		Digital Input D Po							0 (Po	
330		Digital Input D Ac		ource = U	ser Con	fia)			0 (Ac	
33		Digital Input D An							0 (An	
332		Digital Input D Ac					nfia)		0 s	-5/
33		Digital Input E So		, ,						out Source)
334		Digital Input E Po							0 (Po	
33		Digital Input E Ac		ource = Us	ser Con	fig)			0 (Ac	
330		Digital Input E Arr							0 (An	
33		Digital Input E Ac					nfig)		0 s	
33		Digital Input F So								out Source)
339		Digital Input F Pol	larity						0 (Po	
340		Digital Input F Act	tion (If So	ource = Us	er Con	fig)			0 (Ac	
34	1	Digital Input F Arr							0 (An	
342		Digital Input F Act	tivation [	elay (If So	ource =		ıfig)		0 s	
34:		Analogue Input A								out Source)
34		Analogue Input A								larity)
34		Analogue Input A	(Set As	Digital) Ac	tion (If	Source =	User Co	nfig)	0 (Ac	
34		Analogue Input A (Set As Digital) Arming (If Source = L							0 (An	ming)
34		Analogue Input A				Delay (If	Source	= User Config)	0 s	
34		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)								
35		Analogue Input B (Set As Digital) Arming (If Source = User Config) 0 (Arming)								
35		Analogue Input B (Set As Digital) Activation Delay (If Source = User Config) 0 s								
35		Analogue Input C								out Source)
35		Analogue Input C				C	11 6	-£-\	0 (Po	
35		Analogue Input C	(Set As	Digital) Ac	mine ("	Source =	User Co	rilly)	0 (Ac	
35		Analogue Input C							0 (An	ming)
35		Analogue Input C			uvation				0 s	
		Polarity		Polarity			Alarm A			
	x IPo	olarity	Index	Polarity			Index	Action		
Index			0	Energise			0	Electrical Trip		
0 1	Cl	ose to Activate oen to Activate	1	De-Ene			1	Shutdown		

	iguration Parameters - Out								_	
401	Digital Output A Source	0 (Ou	tput	Source)		igital Ou				tput Source)
	Digital Output A Polarity	0 (Ou	tput	Polarity)		igital Ou			0 (Out	tput Polarity)
				Source)		igital Ou				tput Source)
404	Digital Output B Polarity	0 (Ou	tput	Polarity)	414 C	igital Ou	tput G F	Polarity	0 (Out	tput Polarity)
				Source)		igital Ou				tput Source)
				Polarity)		igital Ou				tput Polarity)
				Source)		igital Ou				tput Source)
400										
				Polarity)		igital Ou				tput Polarity)
				Source)		igital Ou				tput Source)
410	Digital Output E Polarity	0 (Ou	tput	Polarity)	420 E	igital Ou	tput J P	olarity	0 (Out	tput Polarity)
Confi	iguration Parameters - Tim	ers (F	age	5)						
501	Start Delay	51		Generator *	Transien	t Delay	525	Light Re-	Strike Tir	mer 4
502	RESERVED	51	4	Light Start-	Up Time	r 1	526	Mast Up	Timer	
503	Crank Time	51		Light Start-			527	Mast Dov		
504	Crank Rest Time	51	_	Light Start-			528	Power Sa		Delay
505	Smoke Limiting	51		Light Start-			529	Deep Sle		
		_								Delay
506	Smoke Limiting Off	51		Light Shutd			530	Page Tin		
507	Safety On Delay	51	_	Light Shutd			531	Cooldow		ie
508	Warm Up Time	52	20	Light Shutd	own Tim	ner 3	532	Delay Cra	ank	
509	Return Delay	52	21	Light Shutd	own Tim	ner 4	533	Mains Su	ıpply Traı	nsient Delay
510	Cooling Time	52	22	Light Re-St	rike Tim	er 1	534	Audible A	Alarm Tim	ner Enable
511	ETS Solenoid Hold	52	23	Light Re-St	rike Tim	er 2	535	Audible A	Alarm Tim	ner Delay
512	Failed To Stop Delay	52		Light Re-St						
	guration Parameters – Gen	ાલા(			622	Low C	rrent Al	arm Engli	0	On (1) Off (
601	Alternator Fitted			(1), Off (0)				arm Enabl		On (1), Off (0
602	Alternator Poles		0		634			arm Actior		0 (Action)
603	Under Voltage Shutdown E			(1), Off (0)	635			arm Perce		0%
604	Under Voltage Shutdown T	rip	0 V		636	Low Cui	rrent Ala	arm Delay		0 s
605	Under Voltage Warning En		On	(1), Off (0)	637	Light 1 (				0.0 A
606	Under Voltage Warning Trip		0 V		638	Light 2 (				0.0 A
607	RESERVED		1		639	Light 3 (				0.0 A
			0 ۷	,						
608	Loading Voltage	LI-			640	Light 4 (			F	0.0 A
609	Over Voltage Warning Enal			(1), Off (0)				age Alarm		On (1), Off (
610	Over Voltage Warning Retu	ırn	0 V	/	642	Mains L	ow Volt	age Alarm	Trip	0 V
611	Over Voltage Warning Trip		0 ۷	/	643	Mains L	ow Volt	age Alarm	Return	0 V
612	Over Voltage Shutdown Tri	ip	0 ۷	/	644			age Warn		On (1), Off (0
613	Under Frequency Shutdown Enable	n	On	(1), Off (0)	645	Mains L	Mains Low Voltage Warning Trip			0 V
614	Under Frequency Shutdown	n 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			ning	On (1), Off (	
616	Under Frequency Warning	Trip	0.0	Hz	648	Mains High Voltage Warning			ning	0 V
617	Looding Fraguency		0.0	LI-						
017					649	Maine H	liah Val		nina Trin	0 V
618	Loading Frequency		0.0		649	Mains H				0 V
618	Nominal Frequency	noblo	0.0	Hz	650	Mains H	ligh Vol	tage Alarn	n Enable	On (1), Off (
619	Nominal Frequency Over Frequency Warning E		0.0 On	Hz (1), Off (0)	650 651	Mains H Mains H	ligh Vol ligh Vol	tage Alarn tage Alarn	n Enable n Return	On (1), Off (0 0 V
	Nominal Frequency		0.0 On	Hz	650	Mains H Mains H Mains H	ligh Vol ligh Vol ligh Vol	tage Alarn tage Alarn tage Alarn	n Enable n Return n Trip	On (1), Off (
619	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T	Return	0.0 On 0.0	Hz (1), Off (0)	650 651	Mains H Mains H Mains H	ligh Vol ligh Vol ligh Vol	tage Alarn tage Alarn	n Enable n Return n Trip	On (1), Off (0 0 V 0 V
619 620	Nominal Frequency Over Frequency Warning E Over Frequency Warning R	Return	0.0 On 0.0	Hz (1), Off (0) Hz	650 651 652 653	Mains H Mains H Mains H Mains L Enable Mains L	ligh Voli ligh Voli ligh Voli ow Fred ow Fred	tage Alarn tage Alarn tage Alarn quency Ala quency Ala	n Enable n Return n Trip arm	On (1), Off (0 0 V 0 V
619 620 621	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown	rip	0.0 0.0 0.0 On	Hz (1), Off (0) Hz Hz (1), Off (0)	650 651 652 653	Mains H Mains H Mains L Mains L Enable Mains L Mains L Return	ligh Volidigh Volidig	tage Alarn tage Alarn quency Ala quency Ala quency Ala	n Enable n Return n Trip arm arm Trip	On (1), Off (0 0 V 0 V On (1), Off (0
619 620 621 622	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable	rip	0.0 0.0 0.0 On 0.0	Hz (1), Off (0) Hz Hz (1), Off (0)	650 651 652 653 654	Mains H Mains H Mains L Enable Mains L Mains L Mains L Mains L Return Mains L Enable	ligh Volidigh Volidig	tage Alarn tage Alarn tage Alarn quency Ala quency Ala quency Ala quency Wa	n Enable n Return n Trip arm arm Trip arm	On (1), Off (0 0 V 0 V On (1), Off (0 0.0 Hz
619 620 621 622 623	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown	rip	0.0 0.0 0.0 On 0.0 0.0	Hz (1), Off (0) Hz Hz (1), Off (0) Hz System	650 651 652 653 654 655 656	Mains H Mains H Mains L Enable Mains L Mains L Return Mains L Enable Mains L Trip	ligh Volidigh Volidig	tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa	n Enable n Return n Trip arm arm Trip arm arm Trip arm arming	On (1), Off (0 0 V 0 V On (1), Off (0 0.0 Hz
619 620 621 622 623 624	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology	rip	0.0 0.0 0.0 On 0.0 0.0	Hz (1), Off (0) Hz Hz (1), Off (0) Hz System pology) (1), Off (0)	650 651 652 653 654 655 656	Mains H Mains H Mains H Mains L Enable Mains L Return Mains L Enable Mains L Return Mains L Enable Mains L Enable Mains L Enable Mains L Return	ligh Volidigh Volume Free ow	tage Alarn tage Alarn tage Alarn tage Alarn quency Ala quency Ala quency Wa quency Wa quency Wa	n Enable n Return n Trip arm arm Trip arm arning arning arning	On (1), Off (1) 0 V 0 V On (1), Off (1) 0.0 Hz 0.0 Hz On (1), Off (1)
619 620 621 622 623 624 625	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable	rip	0.0 0.0 0.0 On 0.0 0 (i To	Hz (1), Off (0) Hz Hz (1), Off (0) Hz System pology) (1), Off (0)	650 651 652 653 654 655 656	Mains H Mains H Mains H Mains L Enable  Mains L Mains L Return Mains L Enable	ligh Volidigh Volidigh Volidigh Volidigh Volidigh Volidigh Volidigh Free ow Fr	tage Alarn tage Alarn tage Alarn tage Alarn quency Ala quency Ala quency Ala quency Wa quency Wa quency Wa quency Wa	n Enable n Return n Trip arm arm Trip arm arning arning arning	On (1), Off (i 0 V On (1), Off (i 0.0 Hz 0.0 Hz On (1), Off (i 0.0 Hz
619 620 621 622 623 624 625 626	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En	Trip	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Hz (1), Off (0) Hz Hz (1), Off (0) Hz System pology) (1), Off (0)	650 651 652 653 654 655 656 657 658	Mains H Mains H Mains I Mains L Enable Mains L Return Mains L Enable Mains L Enable Mains L Enable Mains L Enable Mains L H Enable Mains L Return Mains H Return Mains H Enable	ligh Volidigh Volidigh Volidigh Volidigh Volidigh Volidigh Volidigh Free ow Free ow Free ow Free ow Free ligh Free light	tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Wa quency Wa quency Wa quency Wa	n Enable n Return n Trip arm arm Trip arm arning arning arning arning arning arning	On (1), Off (i 0 V On (1), Off (i 0.0 Hz 0.0 Hz On (1), Off (i 0.0 Hz
619 620 621 622 623 624 625 626 627	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alarr Enable	Trip Trip	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Hz (1), Off (0) Hz Hz (1), Off (0) Hz System pology) (1), Off (0)	650 651 652 653 654 655 656 657 658 659	Mains H Mains H Mains H Mains L Enable Mains L Return Mains L Enable Mains L Return Mains L Enable Mains L Trip Mains L Trip Mains H Enable Mains H Return	ligh Volidigh Volidigh Volidigh Volidigh Volidigh Volidigh Free ow Free ow Free ow Free ow Free ow Free digh Free digh Free digh Free ligh Free light Free ligh Free light Free l	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa	n Enable n Return n Trip arm r Trip arm arning arning arning arning 'arning 'arning	On (1), Off (i 0 V On (1), Off (i 0.0 Hz 0.0 Hz On (1), Off (i 0.0 Hz On (1), Off (i
619 620 621 622 623 624 625 626 627	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alarr	Trip Trip	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Hz (1), Off (0) Hz (1), Off (0) Hz (1), Off (0) Hz System pology) (1), Off (0)	650 651 652 653 654 655 656 657 658 659	Mains H Mains H Mains H Mains L Enable Mains L Trip Mains H Enable	ligh Voligh Voligh Volow Fredow Fredo	tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Wa quency Wa quency Wa quency Wa quency Wa quency Wa	n Enable n Return n Return n Trip arm arm Trip arm arning arning arning arning 'arning 'arning 'arning	On (1), Off (0 0 V 0 V On (1), Off (0 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz
619 620 621 622 623 624 625 626 627 628 629 630	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alarr Enable Delayed Over Current Alarr Enable Delayed Over Current Alarr Action Over Current Delay Time	Trip Trip	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Hz (1), Off (0) Hz (1), Off (0) Hz (1), Off (0) (2), Off (0) (3), Off (0)	650 651 652 653 654 655 656 657 658 659 660 661 662	Mains H Mains H Mains H Mains L Enable Mains L Return Mains L Enable Mains L Enable Mains L Enable Mains L Trip Mains L Return Mains H Return Return Mains H Return Mains H Return Return Mains H Return Return	ligh Voligh Voligh Volow Free ow Free ow Free ow Free ow Free ow Free ligh Free light Free ligh Free light Free	tage Alam tage Alam tage Alam tage Alam quency Ala quency Ala quency Wa quency Al	n Enable n Enable n Trip arm n Trip arm arming arning arning arning arning arning arning arning arning arning	On (1), Off (0 0 V 0 V On (1), Off (1 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz
619 620 621 622 623 624 625 626 627 628 629 630 631 632	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current Er Delayed Over Current Alar Enable Delayed Over Current Alar Enable Delayed Over Current Alar Action Over Current Delay Time Over Current Delay Time	Trip Trip	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Hz (1), Off (0) Hz (1), Off (0) Hz (1), Off (0) (2), Off (0) (3), Off (0)	650 651 652 653 654 655 656 657 658 659 660 661	Mains H Mains H Mains H Mains L Enable Mains L Return Mains L Enable Mains L Enable Mains L Enable Mains L Trip Mains L Return Mains H Return Return Mains H Return Mains H Return Return Mains H Return Return	ligh Voligh Voligh Volow Free ow Free ow Free ow Free ow Free ow Free ligh Free light Free ligh Free light Free	tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Wa quency Wa quency Wa quency Wa quency Wa quency Wa	n Enable n Enable n Trip arm n Trip arm arming arning arning arning arning arning arning arning arning arning	On (1), Off ( 0 V 0 V On (1), Off ( 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz 0.0 Hz
619 620 621 622 623 624 625 626 627 628 629 630 631 632	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current Enable Delayed Over Current Alarr Enable Delayed Over Current Alarr Action Over Current Delay Time Over Current Trip Sources	Trip Trip	0.00 On 0.00 O	Hz (1), Off (0) Hz (1), Off (0) Hz (1), Off (0) (1), Off	650 651 652 653 654 655 656 657 658 659 660 661 662	Mains H Mains H Mains H Mains L Enable Mains L Trip Mains H Enable Mains H Enable Mains H Return Mains H Enable Mains H Return Mains H Enable	ligh Voli ligh Vol ligh Free ligh Free ligh Free ligh Free ligh Free ligh Free	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Ala quency Al	n Enable n Enable n Trip arm n Trip arm arming arning	On (1), Off (0 V V On (1), Off (0 V V V On (1), Off (0 V V V On (1), Off (0 V V V V V V V V V V V V V V V V V V
619 620 621 622 623 624 625 626 627 628 630 631 632	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alarr Enable Delayed Over Current Alarr Enable Over Current Delay Time Over Current Trip Sources User Configured	Trip Trip	0.00 On 0.00 O	Hz (1), Off (0) Hz (1), Off (0) Hz (1), Off (0) Hz (1), Off (0) (1), Off (0) (1), Off (0) Action)	650 651 652 653 654 655 656 657 658 660 661 662 663 664	Mains H Mains H Mains H Mains L H Mains L Enable Mains L Return Mains L Enable Mains L Return Mains L H Mains L Mains L Mains L Mains L Mains L Mains L Return Mains H Enable Mains H Return Mains H Return Mains H Return Mains H Enable	ligh Voli ligh Voli ligh Voli ligh Voli ow Frec ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Ala quency Al	n Enable n Enable n Return n Return n Trip arm  arm Trip arm arning arni	On (1), Off (0 OV
619 620 621 622 623 624 625 626 627 628 629 630 631 632	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning R Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alar Enable Delayed Over Current Alar Enable Over Current Delayed Over Current Alar Cation Over Current Delay Time Over Current Trip Sources User Configured Alarm Mute	Trip Trip	0.00 On 0.00 O	Hz	650 651 652 653 654 655 656 657 658 659 660 661 662 663	Mains H Mains H Mains H Mains H Mains L Enable Mains H Return Mains H Return Mains H Return Mains H Enable	ligh Voli ligh Voli ligh Voli ligh Voli ow Frec ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Wa quency W quency Al quency Al quency Al quency Al	n Enable n Enable n Return n Trip arm  arm Trip arm  arning arning arning /arning	On (1), Off (6   0   V   On (1), Off (6   0.0 Hz   0.0 Hz
619 620 621 622 623 624 625 626 627 628 630 631 632	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alarr Enable Delayed Over Current Alarr Enable Over Current Delay Time Over Current Trip Sources User Configured	Trip Trip	0.00 On 0.00 O	Hz	650 651 652 653 654 655 656 657 658 660 661 662 663 664	Mains H Mains H Mains H Mains H Mains L Enable Mains H Return Mains H Return Mains H Return Mains H Enable	ligh Voli ligh Voli ligh Voli ligh Voli ow Frec ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Wa quency W quency Al quency Al quency Al quency Al	n Enable n Enable n Return n Trip arm  arm Trip arm  arning arning arning /arning	On (1), Off (0 OV
619 620 621 622 623 624 625 626 627 628 630 631 632 Input 0	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning R Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alar Enable Delayed Over Current Alar Enable Over Current Delayed Over Current Alar Cation Over Current Delay Time Over Current Trip Sources User Configured Alarm Mute	Trip Trip	0.00 On 0.00 O	Hz (1), Off (0) Hz Hz (1), Off (0) Hz (1), Off (0) Hz System pology) (1), Off (0) (2) (3) (4) (5) (6) (7) (7) (8) (8) (9) (1) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	650 651 652 653 654 655 656 657 658 659 660 661 662 663	Mains H Mains H Mains H Mains L Mains	ligh Voli ligh Voli ligh Voli ligh Voli ow Frec ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Al	n Enable n Enable n Return n Trip arm  arm Trip arm  arning arning arning /arning	On (1), Off (0 OV
619 620 621 622 623 624 625 626 627 628 629 630 631 632	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning R Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current Enable Delayed Over Current Alarr Enable Over Current Delayed Over Current Alarr Enable Over Current Delay Time Over Current Trip Sources User Configured Alarm Mute Alarm Mute Alarm Reset	Trip Trip	0.00 On 0.00 O	Hz (1), Off (0) Hz Hz (1), Off (0) Hz System pology) (1), Off (0) (1), Off (0) (1), Off (0) (1), Off (0) (2) (3) (4) (5) (6) (6) (7) (8) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	650 651 652 653 654 655 656 657 658 669 660 661 662 0utput A: utput A: utput A: utput A: utput A:	Mains H Mains H Mains H Mains L Mains H M M M M M M M M M M M M M M M M M M M	ligh Voli ligh Fre ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarmtage A	n Enable n Return n Return n Trip arm Trip arm Trip arm arm Irip arming arming arming arming arming arming farning arming arming arming arming arming arming arming arming arming farning farning farning farning arm Trip tast Fully List Fully St. Oothirollied	On (1), Off (0 OV
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619 620 621 622 623 624 625 626 627 628 630 631 1 1 2 3 4 5 6 6	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning R Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alarr Enable Over Current Delayed Over Current Alarr Enable Over Current Delayed Over Current Alarr Action Over Current Delay Time Over Current Trip Sources User Configured Alarm Mute Alarm Mute Alarm Reset Alternative Configuration Auto Start Inhibit Coolant Temperature Swite Emergency Stop External Panel Lock	Trip Trip  mable m	0.00	Hz (1), Off (0) Hz Hz (1), Off (0) Hz (1), Off (0) Hz System pology) (1), Off (0) (2), Off (0) (3), Off (0) (4), Off (0) (5), Off (0) (6), Off (0) (7), Off (0) (8), Off (0) (9), Off (0) (9), Off (0) (1), Off (0) (1), Off (0) (1), Off (0) (2), Off (0) (3), Off (0) (4), Off (0) (5), Off (0) (6), Off (0) (7), Off (0) (8), Off (0) (9), Off (0) (1), Off (0) (	650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 0utput A. de Fuel et euel Leve ssure S. de Fuel et euel euel	Mains H Mains H Mains H Mains H Mains H Mains L Mains	ligh Voli ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Ala quenc	n Enable n Return n Return n Return n Trip arm Trip arm arm Trip arm arming arm	On (1), Off (0 OV
619 620 621 622 623 624 625 626 627 628 630 631 632 Input 1 2 3 4 5 6 6 7 8	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current Er Delayed Over Current Alarr Enable Delayed Over Current Alarr Enable Over Current Delay Time Over Current Trip Sources User Configured Alarm Mute Alarm Mute Alarm Meset Alternative Configuration Auto Start Inhibit Emergency Stop External Panel Lock Inhibit Light Output 1	Trip Trip  mable m	0.00	Hz	650 651 652 653 654 655 656 657 658 669 660 661 662 663 664 butput A.A. Julput A.A. Julput A.B. Julput	Mains H Mains H Mains H Mains L Mains H M Mains H M M M M M M M M M M M M M M M M M M M	ligh Voli ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Ala q	n Enable n Renatum n Trip narm n Trip narm Trip narm n Trip narm n Trip narm n Trip narm n Trip narming narmin	On (1), Off (0 O V O Hz On (1), Off (0 O V O Hz On (1), Off (0 O Hz On (1), Off (0 O Hz On (1), Off (0 O O Hz Open Closed Upports Open Stop Open Stop Open Closed Upport Open Stop Open Closed Upport Open Open Open Open Open Open Open Open
619 620 621 622 623 624 625 626 627 628 630 631 1 1 2 3 4 5 6 6	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning R Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alarr Enable Over Current Delayed Over Current Alarr Enable Over Current Delayed Over Current Alarr Action Over Current Delay Time Over Current Trip Sources User Configured Alarm Mute Alarm Mute Alarm Reset Alternative Configuration Auto Start Inhibit Coolant Temperature Swite Emergency Stop External Panel Lock	Trip Trip  mable m	0.00	Hz	650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 0utput A. de Fuel et euel Leve ssure S. de Fuel et euel euel	Mains H Mains H Mains H Mains L Mains H M Mains H M M M M M M M M M M M M M M M M M M M	ligh Voli ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Ala q	n Enable n Return n Return n Return n Trip arm Trip arm arm Trip arm arming arm	On (1), Off (0 O V O Hz On (1), Off (0 O V O Hz On (1), Off (0 O Hz On (1), Off (0 O Hz On (1), Off (0 O O Hz Open Closed Upports Open Stop Open Stop Open Closed Upport Open Stop Open Closed Upport Open Open Open Open Open Open Open Open
619 620 621 622 623 624 625 626 627 628 630 631 632 Input 1 2 3 4 5 6 6 7 8	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning T Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current Er Delayed Over Current Alarr Enable Delayed Over Current Alarr Enable Over Current Delay Time Over Current Trip Sources User Configured Alarm Mute Alarm Mute Alarm Meset Alternative Configuration Auto Start Inhibit Emergency Stop External Panel Lock Inhibit Light Output 1	Trip Trip  mable m	0.00	Hz (1), Off (0) Hz Hz (1), Off (0) Hz (1), Off (0) Hz System pology) (1), Off (0) (1), Off (0) (1), Off (0) (1), Off (0) (2) Action) (3) (4) (5) (6) (7) (8) (8) (9) (9) (10) (11) (11) (12) (13) (13) (14) (15) (15) (15) (16) (17) (17) (17) (18) (18) (18) (18) (18) (18) (18) (18	650 651 652 653 654 655 656 657 658 669 660 661 662 663 664 butput A.A. Julput A.A. Julput A.B. Julput	Mains H Mains H Mains H Mains H Mains H Mains H Mains L M M M M M M M M M M M M M M M M M M	ligh Voli ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Al	n Enable n Return n Return n Return n Return n Trip arm Trip arm Trip arm arming armin	On (1), Off (0 O V O Hz On (1), Off (0 O V O Hz On (1), Off (0 O Hz On (1), Off (0 O Hz On (1), Off (0 O O Hz Open Closed Upports Open Stop Open Stop Open Closed Upport Open Stop Open Closed Upport Open Open Open Open Open Open Open Open
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619 620 621 622 623 624 625 626 627 628 630 631 1 2 2 3 4 4 5 6 6 7 8 8 9 9 10 11	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning R Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alar Enable Over Current Pen Delayed Over Current Alar Enable Over Current Pen Delayed Over Current Alar Action Over Current Trip Sources User Configured Alarm Mute Alarm Reset Alarm Reset Alternative Configuration Auto Start Inhibit Coolant Temperature Swite Emergency Stop External Panel Lock Inhibit Light Output 2 Inhibit Light Output 4	Trip Trip  mable m	0.00	Hz	650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 butput Ar. butput	Mains H Mains H Mains H Mains H Mains H Mains H Mains L Mains H Mains L Mains H M M M M M M M M M M M M M M M M M M	ligh Voli ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm	n Enable no Return n Return n Return n Return n Return n Trip arm Trip arm Trip arm arming ar	On (1), Off (6)  O V  On (1), Off (6)  O Hz  Open Closed  Open Cl
619 620 621 622 623 624 625 626 627 628 630 631 632 Input 0 1 2 3 4 5 6 7 8 8 9	Nominal Frequency Over Frequency Warning E Over Frequency Warning R Over Frequency Warning R Over Frequency Shutdown Enable Over Frequency Shutdown System Topology CT Enable CT Primary Full Load Rating Immediate Over Current En Delayed Over Current Alarr Enable Over Current Delayed Over Current Alarr Enable Over Current Delayed Over Current Alarr Enable Over Current Delayed Over Current Alarr Action Over Current Delay Time Over Current Trip Sources User Configured Alarm Mute Alarm Reset Alternative Configuration Auto Start Inhibit Coolant Temperature Swite Emergency Stop External Panel Lock Inhibit Light Output 1 Inhibit Light Output 3	Trip Trip  mable m	0.00	Hz	650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 Leve ssure S 659 660 661 662 10 get Fuel Start C 6 e Start C 6 e Start C 6 start C 7 s	Mains H Mains H Mains H Mains H Mains H Mains H Mains L M Mains H M Mains H M M M M M M M M M M M M M M M M M M	ligh Voli ligh Fre ligh Fre ligh Fre ligh Fre	tage Alarm tage Alarm tage Alarm tage Alarm quency Ala quency Ala quency Wa quency Ala quen	n Enable no Return n Return n Return n Return n Return n Trip arm Trip arm Trip arm arming ar	On (1), Off (0 0 V On (1), Off (0 0.0 Hz Open Closed Upports Open Stop Dply Active ut Override ve Mode eduled Run ast Control ver Mast Regen Inhibit Regen in Interlock

	guration Parameters – Engine (P	age 7)			
701	Start Attempts	0	725	Charge Alt Warning Trip	0.0 V
702	Gas Choke Timer	0 s	726	Charge Alt Warning Delay	0 s
102	(Gas Engine Only)	0.5	720	Charge Ait Warning Delay	0.3
703	Gas On Delay	0 s	727	Low Battery Engine Start Arming	On (1), Off (0)
	(Gas Engine Only)	0.0		, , ,	0 (1), 0 (0)
704	Gas Ignition Off Delay	0 s	728	Low Battery Engine Start	0.0 V
	(Gas Engine Only)			Threshold	
705	Crank Disconnect On Oil Pressure Enable	On (1), Off (0)	729	Low Battery Engine Start Delay	0 s
	Check Oil Pressure Prior To			Low Battery Engine Start Run	
706	Starting	On (1), Off (0)	730	Time	0 s
707	Crank Disconnect On Oil	0.00 Bar	731	Auto Retry Start Attempts Enable	On (1), Off (0)
708	Crank Disconnect On Frequency	0.00 Bai	732	Auto Retry Start Attempts	0
	Crank Disconnect On Engine				
709	Speed	0 RPM	733	J1939-75 Instruments	On (1), Off (0)
710	Under Speed Enable	On (1), Off (0)	734	J1939-75 Alarms	On (1), Off (0)
711	Under Speed Trip	0 RPM	735	CAN TX Messages Address	0
712	Over Speed Trip	0 RPM	736	CAN TX Instruments Address	0
713	Low Battery Voltage Enable	On (1), Off (0)	737	Tier 4 Home Screen	On (1), Off (0
714	Low Battery Voltage Trip	0.0 V	738	Engine Start Pause Time	0 s
	Low Battery Voltage Return	0.0 V	739	Block Heater Enable	On (1), Off (0)
716	Low Battery Voltage Delay	0 s	740	Block Heater Temperature	0.00 °C
717	High Battery Voltage Enable	On (1), Off (0)	741	Block Heater Time	0 s
	High Battery Voltage Return	0.0 V	742	Pre Heat Enable	On (1), Off (0)
719	High Battery Voltage Trip	0.0 V	743	Pre Heat Temperature	0.00 °C
720	High Battery Voltage Delay	0 s	744	Pre Heat Time	0 s
721	Charge Alt Shutdown Enable	On (1), Off (0)	745	Post Heat Enable	On (1), Off (0)
722	Charge Alt Shutdown Trip	0.0 V	746	Post Heat Temperature	0.00 °C
723	Charge Alt Shutdown Delay	0 s	747	Post Heat Time	0 s
724	Charge Alt Warning Enable	On (1), Off (0)	748	Crank Disconnect on Oil Delay	0 s
Confi	guration Paramotore - Altornato	Configuration /	Dogo S	2)	

Configuration Farameters - Afternate Configuration (Fage 6)							
801-867 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	Schedule Bank A Period	Weekly(0), Monthly(1), Daily (2)					
903, 909, 915, 921, 927, 933, 939, 945	Auto Mode (Entry 1-8)	On (1), Off (0)					
904, 910, 916, 922, 928, 934, 940, 946	Schedule Mode (Entry 1-8)	Off Load (0), On Load (1), Lights Only (2)					
905, 911, 917, 923, 929, 935, 941, 947	Start Time (Entry 1-8)	0:00:00					
906, 912, 918, 924, 930, 936, 942, 948	Day (Entry 1-8)	0 (1=Monday)					
907, 913, 919, 925, 931, 937, 943, 949	Week (Entry 1-8)	1, 2, 3 or 4					
908, 914, 920, 926, 932, 938, 944, 950	Duration (Entry 1-8)	0 s					
951	Schedule Bank B Period	Weekly(0), Monthly(1), Daily (2)					
952, 958, 964, 970, 976, 982, 988, 994	Auto Mode (Entry 9-16)	On (1), Off (0)					
953, 959, 965, 971, 977, 983, 989, 995	Schedule Mode (Entry 9-16)	Off Load (0), On Load (1), Lights Only (2)					
954, 960, 966, 972, 978, 984, 990, 996	Start Time (Entry 9-16)	0:00:00					
955, 961, 967, 973, 979, 985, 991, 997	Day (Entry 9-16)	0 (1=Monday)					
956, 962, 968, 974, 980, 986, 992, 998	Week (Entry 9-16)	1, 2, 3 or 4					
957, 963, 969, 975, 981, 987, 993, 999	Duration (Entry 9-16)	0 s					

	601; 600; 600; 610; 601; 600; 600   Baration (Entry 6 10)								
C	Configuration Parameters – Time (Page 10)								
	1001	Time of Day	0:00:00	1007	Latitude	0 °			
Г	1002	Day of Month	1-31	1008	Longitude	0 °			
Γ	1003	Month of Year	1-12	1009	Time Zone Offset	0 hours			
	1004	Year	0-99	1010	Sunset Offset	0 hours			
Г	1005	Enable Daylight Saving	On (1), Off (0)	1011	Sunrise Offset	0 hours			
	1006	Daylight Saving Offset	0 hours						

Configuration Parameters – Maintenance Alarms (Page 11)
1101-1109 | For information on this section, refer to DSE Publication: 057-221 DSEL401 MKII Operators Manual

Sensor Type		Digital Inp	ut Alarm Arming	Power Up	Power Up Mode		
Index	Туре	Index	Arming	Index	Mode		
0	None	0	Always	0	Stop		
1	Digital Input	1	From Safety On	1	Manual		
2	Percentage Sensor	2	From Starting	2	Auto		
3	Pressure Sensor	3	Never				
4	Temperature Sensor						

Index	Туре	Index	Туре
0	2 Phase, 3 Wire (L1-L2)	6	3 Phase, 4 Wire Delta (L2-N-L3)
1	2 Phase, 3 Wire (L1-L3)	7	Single Phase, 2 Wire
2	3 Phase, 3 Wire	8	Single Phase, 3 Wire (L1-L2)
3	3 Phase, 4 Wire	9	Single Phase, 3 Wire (L1-L3)
4	3 Phase, 4 Wire Delta (L1-N-L2)	10	2 Wire Unearthed DC
5	3 Phase, 4 Wire Delta (L1-N-L3)		
ressure S	Sensor List Temperature S	ensor List	Percentage Sensor List

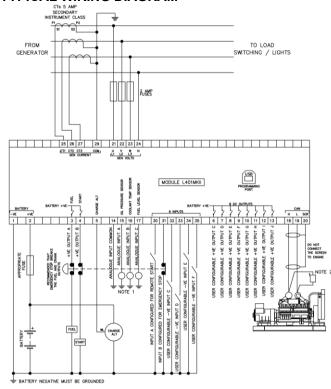
Flessule Selisor List		remperat	ule Selisol List	referriage Serisor List		
Index	Туре	Index	Туре	Index	Туре	
0	Not used	0	Not Used	0	Not Used	
1	Dig Closed for Alarm	1	Dig Closed for Alarm	1	Dig Closed for Alarm	
2	Dig Open for Alarm	2	Dig Open for Alarm	2	Dig Open for Alarm	
3	VDO 5 Bar	3	VDO 120 °C	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			

OUI	put Sources				
0	Not Used	42	Gen Under Voltage Shutdown	83	Mains Low Voltage Shutdown
1	Air Filter Maintenance	43	Generator Over Current	84	Gen/Mains High Frequency
2	Air Flap Relay	44	Generator Delayed Over Current	85	Gen/Mains High Voltage
3	Audible Alarm	45	High Coolant Temp Shutdown	86	Gen/Mains Low Frequency
4	System In Auto Mode	46	Light Output 1	87	Gen/Mains Low Voltage
5	Battery Over Volts Warning	47	Light Output 2	88	Combined Mains Supply Failure
	Battery Under Volts Warning	48	Light Output 3	89	Combined Gen/Mains Failure
	CAN ECU Data Fail		Light Output 4	90	
	CAN ECU Error		Low Oil Pressure Shutdown	91	RESERVED
	CAN ECU Fail	51		92	Gen Under Frequency Warning
	CAN ECU Power	52	Oil Filter Maintenance	93	
	CAN ECU Stop		Oil Pressure Open Circuit	94	
	Charge Alternator Shutdown	54		95	
	Charge Alternator Warning	55		96	SCR Inducement
	Common Alarm		Preheat During Preheat Timer	97	Water in Fuel
	Common Electrical Trip	57		98	DEF Level Low
	Common Shutdown		Preheat Until End of Clark  Preheat Until End of Safety Timer		DPTC Filter
	Common Warning		Preheat Until End of Warming		HEST Active
	Cooling Down		Smoke Limiting		DPF Regeneration in Progress
	Digital Input A	61			DPF Regeneration in Progress  DPF Non-Mission State
			System In Stop Mode		DPF Forced Regen Requested
	Digital Input B				
	Digital Input C		Temp Sender Open Circuit		DPF Regen Interlock Active
	Digital Input D		Gen Under Frequency Shutdown		DPF Auto Regen Inhibit Reque
	Digital Input E		Under Speed Shutdown		Mains High Frequency Warning
	Digital Input F	66			Mains Low Frequency Warning
	Analogue Input A (Digital)	67	Over Speed Overshoot		Mains High Voltage Warning
26	Analogue Input B (Digital)	68	Low Current Alarm		Mains Low Voltage Warning
27	Analogue Input C (Digital)	62	System In Stop Mode	110 to 113	RESERVED
၁၀	Emergency Stop	60	Display Heater Fitted & Active		Block Heater
		70			
29	Energise To Stop	70	Flexible Senor C High Shutdown	116	Fuel Pull in Coil
30	Fail To Start	71	Flexible Senor C High Warning		RESERVED
31	Fail To Stop	72	Flexible Senor C Low Warning	120	
32	Fuel Filter Maintenance	73	Flexible Senor C Low Shutdown	121	Gen High Frequency Overshoo Warning
33	Fuel Relay	74	Fuel Sensor High Shutdown	122	Gen High Frequency Delayed Warning
	Fuel Sender Trip 1		Fuel Sensor High Warning		Gen High Frequency Delayed Shutdown
	Fuel Sender Trip 2		Fuel Sensor Low Warning		Oil Pressure Switch
	Fuel Sender Trip 3	77	Fuel Sensor Low Shutdown		Coolant Temperature Switch
	Fuel Sender Trip 4		Mast Up		Fuel Level Switch
38	Gas Choke On		Mast Down		Low Battery Start
39 Gas Ignition		80	Mains High Frequency Shutdown		Generator Within Standards
39					Bund Tank
40	Generator Available	81			
40	Generator Available Gen Over Voltage Shutdown	81 82			Controlled Stop

41 Gen Ove	er Voltage Shutdown   82   Mains High Voltag	e Shutdown 130 Controlled Stop				
Configuration	on Parameters – Analogue Inputs (Page 12	2)				
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				
1224-1225	RESERVED					
1226	Flexible Sensor C High Alarm Action	0 (Action)				
1227	Flexible Sensor C High Alarm Trip	0 % / Bar / °C				
1228-1229	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				

Configurat	Configuration Parameters – Analogue Inputs (Page 12) Continued							
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						

### **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 DEV NOTE 2. 120 R TERMINATING RESISTOR MAY BE REQUIRE

TERMINALS

NOTE: A larger version of the typical wiring diagram is included in the product's operator manual. Refer to DSE Publication:
057-221 DSEL401 MKII Operator Manual

**DIMENSIONS** 

140 mm x 113 mm x 43 mm (5.5" x 4.4" x 1.7") PANEL CUTOUT

(4.6" x 3.6")

Tightening Torque: 0.5 Nm (4.5 lb-in) Conductor Size: 0.5 mm² to 2.5 mm² (20 AWG to 13 AWG)

# DSE

## **DEEP SEA ELECTRONICS**DSEL401 MKII Installation Instructions

#### **EDITING A PARAMETER**

- Press the Stop/Reset Mode (-) and Auto Mode (v) buttons together to enter the editor mode.
- Press the *Up* or *Down* navigation buttons to change between (User) or (Configuration Editor) icons.
- Press the Auto Mode ( ) 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 Manual/Start Mode (+) or Stop/Reset Mode (-) buttons 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 the 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: 057-222 DSEL401 MKII Configuration Suite PC Software Manual.

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#### 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 13 AWG to 20 AWG (0.5 mm² to 2.5 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 ¼" (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 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)