

Connection Number	Function and suggested setting
1	Battery Negative
2	Battery + wired trough 5 amp fuse
3	Aux Output 1- Fuel Relay
4	Engine starter crank relay
5	Aux Out 2 – Configure as required
6	Aux Output 3 – Configure as required
7	Aux Input 1 – High Temp shutdown Switch – close (earth) to stop
8	Aux Input 2 – Oil Pressure Shutdown Switch – Close to stop
9	Aux Input 3 – Auto Start – Earth to Start engine
10	Aux Input 4 – E Stop Button – earth to activate
11	Engine Temp Gauge
12	Oil Pressure Gauge
13	CT 1 Amp reading
14	CT 2 Amp reading
15	CT 3 amp reading
16	Common From CT's
17	Magnetic Pickup
18	Charge Alternator D +
19	Aux Output 4
20	Aux Output 5
21	
22	Generator U = L1
23	Generator V = L2
24	Generator W = L3
25	Generator Neutral
26	
27	

1	Start Delay	Suggest set at 1 second
2	Stop Delay	Suggest set at 1 second
3	No of Crank attempts	5
4	Pre Heat Time	Set as needed
5	Crank Time	8 Seconds
6	Crank Rest Time	10 Seconds
7	Safe Time (before shutdowns are active)	10 Seconds
8	Start Idle Time	0000
9	Warm up time	0000
10	Cool down time	5 seconds or as required
11	Stop Idle Time	0000
12	ERS hold time	Set as required (normally 0000)
13	Fail to Stop delay	0000
14	ATS Close	As required
15	Flywheel teeth	Count if using MPU
16	Gen Volt Abnormal Time	5 Seconds
17	Gen over Volt	255
18	Gen Under Volt	190
19	Gen Under Speed	1200
20	Gen over speed	1650
21	Gen Under HZ	45
22	Gen Over HZ	56
23	High Temp	96 Degrees C
24	Low Oil Pressure	0103 KPA
25	Low Fuel Level	10%
26	Config Sensor Set	96C
27	Lost Speed Delay	05.0 secs
28	Charge Fail Volts	8.5 for 12 V -18 V for 24 V
29	Battery Under Volts	15.5 = 12V – 30 = 24V
30	Battery Under Volts	8 = 12V - 18 = 24 V
31	CT Rate	Set accordingly
32	Full Load Current	Set Accordingly
33	Over Currant	110%
34	Over Currant Delay	30 Seconds or your choice of time
35	Fuel Pump On	Refers to fuel level top up from external tank (Suggest 20 %)

36	Fuel Pump Off	Suggest 80 %
37	Aux Output 1 set	Option 14 – Fuel Relay
38	Aux Output 2	
39	Aux Output 3	Set as Required
40	Aux Output 4	Set as Required
41	Aux Output 5	Set as Required

Parameter Settings for HGM410N Controller

42	Digital Input 1	High Temp Input
43	Digital Input Act	Close To Stop
44	Digital Input Delay	2 Secs
45	Digital Input 2 Set	Low Oil Pressure
46	Range	Close To Activate
47	Digital Input 2 Time Delay	1 Second
48	Digital Input 3	Option 10 – Remote Start
49	Digital Input 3 act	Close To Activate
50	Digital Input 3 Delay	2 Seconds or other
51	Digital Input 4	Emergency Stop, Programme 04
52	Digital Input 4 Act	01 – open – earth to activate or choose
53	Digital Input 4	0 Seconds
54	Module Power On	Set at 00 – Stop Mode
55	Module Address	
56	Password	Original is 0318, change if required
57	Crank Disconnect	Suggest HZ and oil pressure
58	Speed Disconnect starter motor	350 RPM
59	HZ Disconnect	Suggest 8 HZ
60	Oil Pressure Disconnect	Suggest 110 KPA
61	Select inhibit WTH	Stop
62	Select Inhibit OPL	Stop
63	Select Inhibit Fuel Level	Inhibit Stop
64	Select Inhibit Str	Inhibit Stop
65	Select AC System	3 Phase – 4 wire
66	Select Temp Curve	Select 02 VDO (or other if another is used)
67	Select Pressure Curve	Select 02 VDO (or other if another is used)
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69		
70		
71		
72	Generator Poles	Usually 4 ( 2 if 3000 RPM)
73	Temp Sender Open Action	00 = Indication
74	Oil Press sensor open action	00 = indication
75		
76		
77		
78		
79		
80	Maintenance Enable	00 = untenable, or your choice
81	Maintenance Time	Set Hours, Suggest 300
82	Maintenance Action	00 = Waran
83		
84		
85		
86		