

- DIMENSIONS 209mm x 146mm (8.23" x 5.75")
- MOUNTING Mounting holes suitable for 4 x 4mm screws Mounting Hole spacing 196.0mm x 103.5mm (7.717" x 4.075")
- 182mm x 137mm (7.17" x 5.39") PANEL CUT-OUT Maximum panel thickness - 8mm (0.3")

053-005 DEEP SEA ELECTRONICS **ISSUE 2**

DSE Model 720 Configuration and installation instructions ACCESSING THE CONFIG EDITOR SETTINGS

S

Press the Stop/Reset 0 and Info buttons simultaneously.

- The LED beside the AUTO button will flash continuously to indicate that configuration mode has been entered.
- The first configuration setting is displayed:

1

N

From the configuration table, this example is displaying Start Delay (parameter 0). It is currently set to 5 seconds.

EDITING A PARAMETER

- Enter the editor as described above.
- Press + / to scroll through the parameters to the one you want to change.
- Press ✓ to enter edit mode. The 14 symbol will flash on the display to indicate that edit mode has been entered.
- Press + / to change the value to the desired parameter.
- Press \checkmark to save the value and exit edit mode for this parameter.
- The *t* symbol will be removed from the display to indicate that edit mode has been exited.
- To select another value to edit, press the + / buttons. Continuing to press the + and - buttons will cycle through the adjustable parameters as shown in the following lists.

Factory default settings are in **bold italicised** text.

Timers	
0 - Start Delay	0-60m (5s)
1 - Preheat	0-60s (0s)
2 - Cranking Time	3-60s (10s)
3 - Crank Rest Time	3-60s (10s)
4 - Safety On Delay	8-60s (8s)
5 - Warm Up Time	0-10m <i>(0s)</i>
6 - Gen transient delay	0-10s (0s)
7 – Return Delay	0-60m (30s)
8 - Cooling Time	0-30s (1m)
9 - ETS Hold Time	0-60s (0s)
10 - Fail To Stop Delay Time	10-60s (60s)
11 - Low DC Voltage Alarm Delay	0-60m (5m)



Generator	
12 - Under Frequency	0-60Hz (40Hz)
13 - Loading Frequency	20-60Hz (47Hz)
14 - Over Frequency	50-72Hz (57Hz)
15 - Loading Voltage	50-333V (212V)
16 - Over Current Alarm	50-120% (110%)
17 - Over Current Alarm Type	0 - Warning
	1 - Shutdown
	2 - Electrical Trip
Engine	
18 - Low DC Voltage Alarm	0-25V (8V)
19 - Charge Fail Voltage Alarm	0-25V (8V)

Fixed Input settings	
20 - Low Oil Pressure	5-150PSI (15 PSI)
21 - High Engine Temperature	90-150°C (95<i>°</i>C)
22 - Remote Start / Simulated Mains input	0 - Remote start close to activate
	1 - Remote start open to activate
	2 - Simulated mains close to activate
	3 - Simulated mains open to activate

ANOTE: To exit the front panel configuration editor at any time, press the Stop/Reset 🤨 button. Ensure you have saved any changes you have made by pressing the \checkmark button first

Deep Sea Electronics Plc. Tel:+44 (0)1723 890099 Fax: +44 (0)1723 893303 LO CALL (from UK BT landlines) : Telephone 0845 260 8933 Email: support@deepseaplc.com Web: www.deepseaplc.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: dsesales@deepseausa.com Web: www.deepseausa.com

Deep Sea Electronics Plc. (Far East) Tel:+66 2 670 6228 Fax: +66 2 678 3028 Email: support@deepseaplc.com Web: www.deepseaplc.com

סק †1



Factory d	efault	settinas	are in	bold	italicised	text.
-----------	--------	----------	--------	------	------------	-------

Auxiliary Input settings	
Auxiliary Input Settings	0. Delayed warning close to activate
23 - Auxiliary Input 1	1 Delayed, warning close to active
	2 Immediate warning, open to active
	2 - Immediate, warning, close to activate
	A Delayed shutdown close to activate
	5 - Delayed, shutdown, Close to activate
	6 Immediate shutdown close to activate
	7 - Immediate, shutdown, close to activate
	8 - Lamp test, close to activate
	0 - Lamp test, close to activate
24 - Auxiliary input 1 delay	
25 - Auxiliary Input 2	0 - Delaved, warning, close to activate
	1 - Delaved, warning, open to active
	2 - Immediate, warning, close to activate
	3 - Immediate, warning, open to activate
	4 - Delaved, shutdown, close to activate
	5 - Delayed, shutdown. Open to activate
	6 - Immediate, shutdown, close to activate
	7 - Immediate, shutdown, open to activate
	8 - Electrical trip, close to activate
	9 - Electrical trip, open to activate
26 - Auxiliary input 2 delay	0-10s (0s)
Outputs	
27 - Auxiliary Output 1	0 - Unused
	1 - Preheat Mode 0
	2 - Air Flap
	3 - Close Generator
	4 - Energise to stop
	5 - Engine Running
	6 - Shutdown Alarm
	7 - System in auto
	8 - Auxiliary input 1 active
	9 - Auxiliary input 2 active
	10 - Preheat mode 1
	11 - Preheat mode 2
	12 - Preheat mode 3
	13 - Warning Alarm
	14 - Common Alarm
	15 - Fail to start
28 - Auxiliary Output 2	0 - Unused
	1 - Preheat Mode 0
	2 - Air Flap
	3 - Close Generator
	4 - Energise to stop
	5 - Engine Running
	6 - Shutdown Alarm
	7 - System in auto
	8 - Auxiliary input 1 active
	9 - Auxiliary input 2 active
	10 - Preheat mode 1
	11 - Preheat mode 2
	12 - Preheat mode 3
	13 - Warning Alarm
	14 - Common Alarm
	15 - Fail to start

Factory default settings are in **bold italicised** text.

LCD Indicators		WIISC	
29 - LCD indicator 1	0 - Unused	31 - Full Load Current	5-6000A (500A)
	1 - Preheat Mode 0	Rating	
	2 - Air Flap	32 - Current	5-6000A (500A)
	3 - Close Generator	Transformer Primary	
	4 - Energise to stop	33 - Alternator Poles	2,4,6,8 (4)
	5 - Engine Running	34 - AC Topology (see	0 - 3 phase, 4 wire
	6 - Shutdown Alarm	note 1)	
	7 - System in auto		1 - Single phase, 2 wire
	8 - Auxiliary input 1 active	35 - Oil Pressure	0 - Bar / PSI
	9 - Auxiliary input 2 active	Display Units	4
	10 - Preheat mode 1	00.01	1-Kpa
	11 - Preheat mode 2	36 - Oil pressure	0 - Not used
	12 - Preheat mode 3	sender type	1 Digital alagad for law oil
	13 - Warning Alarm		1 - Digital closed for low off
	14 - Common Alarm		2 - Digital open for low oil
	15 - Fail to start		
30 - LCD indicator 2	0 - Unused		3 - VDO 5 bar
	1 - Preheat Mode 0		4 - VDO 10 bar
	2 - Air Flap		5 - Datcon 5 bar
	3 - Close Generator		6 - Datcon 10 bar
	4 - Energise to stop		7 - Datcon 7 bar
	5 - Engine Running		8 - Murphy 7 bar
	6 - Shutdown Alarm		9 - User configured
	7 - System in auto	37 - Coolant	1 - Digital closed for high
	8 - Auxiliary input 1 active	temperature sender	temperature
	9 - Auxiliary input 2 active	type	
	10 - Preheat mode 1		2 - Digital open for high
	11 - Preheat mode 2		temperature
	12 - Preheat mode 3		3 - VDO 120°C
	13 - Warning Alarm		4 - Datcon high
	14 - Common Alarm]]	5 - Datcon low
	15 - Fail to start		6 - Murphy
		-	7 - Cummins
			8 - User configured

NOTE:- The 'preheat modes' selectable for configurable outputs and LCD indicators perform the following actions :

- Preheat mode 0 Preheat during preheat timer, ceasing at end of preheat timer.
- Preheat mode 1 Preheat during preheat timer and continue until engine stops cranking.
- Preheat mode 2 Preheat during preheat timer and continue until the safety delay timer has expired.
- Preheat mode 3 Preheat during preheat timer and continue until the warming timer has expired.

In addition, in all preheat modes, preheat takes place during the crank rest timer between crank cycles.

Mains	
38 - Immediate Mains Dropout	0 - No
-	1 - Yes
39 - Mains Undervolt Trip	50-333V (184V)
40 - Mains Undervolt Return	50-333V (207V)
41 - Mains Overvolt Return	50-333V (253V)
42 - Mains Overvolt Trip	50-333V (276V)
43 - Mains Transient Delay Timer	0-30s (0s)