

- 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:

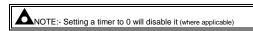
From the configuration table, this example is displaying Start Delay (parameter 0). It is currently set to 5 seconds.

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 🚺 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 <i>(5m)</i>



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 /	0 - Remote start
Simulated Mains input	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

	13
	16 -
	17 -
2.5	
1	
	En
	18

Factory default settings are in bold italicised te	ĸt.
---	-----

Factory default settings are in bold italicised text.			
Auxiliary Input settings			
23 - Auxiliary Input 1	0 - Delayed, warning close to activate		
	1 - Delayed, warning, open to active		
	2 - Immediate, warning, close to activate		
	3 - Immediate, warning, open to activate		
	4 - Delayed, shutdown, close to activate		
	5 - Delayed, shutdown. Open to activate		
	6 - Immediate, shutdown, close to activate		
	7 - Immediate, shutdown, open to activate		
	8 - Lamp test, close to activate		
	9 - Lamp test, open to activate		
24 - Auxiliary input 1 delay	0-10s (0s)		
25 - Auxiliary Input 2	0 - Delayed, warning, close to activate		
	1 - Delayed, warning, open to active		
	2 - Immediate, warning, close to activate		
	3 - Immediate, warning, open to activate		
	4 - Delayed, 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	0-10s (US)		
27 - Auxiliary Output 1	0 - Unused		
27 - Auxiliary Output 1	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		
	8 - Auxiliary input 1 active 9 - Auxiliary input 2 active		
	8 - Auxiliary input 1 active 9 - Auxiliary input 2 active 10 - Preheat mode 1		
	8 - Auxiliary input 1 active 9 - Auxiliary input 2 active 10 - Preheat mode 1 11 - Preheat mode 2		
	8 - Auxiliary input 1 active 9 - Auxiliary input 2 active 10 - Preheat mode 1 11 - Preheat mode 2 12 - Preheat mode 3		
	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		
	8 - Auxiliary input 1 active 9 - Auxiliary input 2 active 10 - Preheat mode 1 11 - Preheat mode 2 12 - Preheat mode 3		

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

LCD Indicators			Misc	
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	1 1/22
	10 - Preheat mode 1			1 - Kpa
	11 - Preheat mode 2		36 - Oil pressure sender type	0 - Not used
	12 - Preheat mode 3		Sender type	1 - Digital closed for low oil
	13 - Warning Alarm			pressure
1	14 - Common Alarm			2 - Digital open for low oil
	15 - Fail to start			pressure
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 ٠ 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)