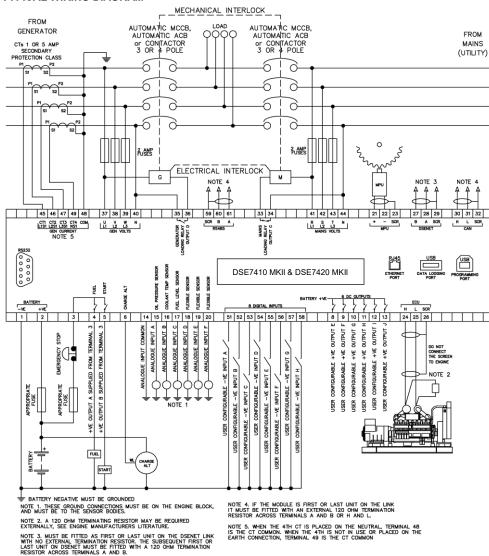
TYPICAL WIRING DIAGRAM



NOTE: Terminals 41, 42, 43 & 44 are not fitted to the DSE7410 MKII.

NOTE: A larger version of the Typical Wiring Diagram is available in the product's operator manual, refer to DSE Publication: 057-263 DSE7410 MKII & DSE7420 MKII Operator Manual available from www.deepseaelectronics.com for more information.

Deep Sea Electronics Ltd.

Tel: +44 (0)1723 890099
Email: support@deepseaelectronics.com
Web: www.deepseaelectronics.com

Deep Sea Electronics Inc.

Tel: +1 (815) 316 8706 Fax: +1 (815) 316 8708 Email: support@deepseausa.com Web: www.deepseausa.com

DSE

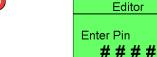
DEEP SEA ELECTRONICS

053-191 ISSUE 3

DSE7410 MKII & DSE7420 MKII Installation Instructions

ACCESSING THE MAIN 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 (Tick) buttons simultaneously.

If a module security PIN has been set, the PIN number request is then shown:

The first '#' changes to '0'. Press the
 (Up) or
 (Down) button to adjust it to the correct value.

Press the

(Right) button when the first digit is correctly entered. The digit previously entered now shows '#' for security.

Repeat this process for the other digits of the PIN number. Press the digits.

(Left) button to move back to adjust one of the previous digits.

 If the PIN has been successfully entered (or the module PIN has not been enabled), the editor is displayed: Editor - Display

Contrast

53%

EDITING A PARAMETER

Enter the editor as described above.

000

Press the
 (Right) or
 (Left) buttons to cycle to the section to view/change.

Press the
 (Up) or
 (Down) buttons to select the parameter to view/change within the currently selected section.

• To edit the parameter, press the (Tick) button to enter edit mode. The parameter begins to flash to indicate editing.

Press the (Tick) button to save the value. The parameter ceases flashing to indicate that it has been saved.

To exit the editor and save the changes, press and hold the

(Tick) button.

To exit the editor and not save the changes, press and hold the (Stop/Reset) button.

NOTE: If the editor is left inactive for the duration of the LCD Page Timer, it is automatically exited to ensure security.

ANOTE: The PIN number is automatically reset when the editor is exited (manually or automatically) to ensure security.

NOTE: Comprehensive module configuration is possible using the DSE Configuration Suite PC Software, refer to DSE publication 057-262 DSE7410 MKII & DSE7420 MKII Configuration Suite PC Software Manual available from www.deepseaelectronics.com.

MAIN CONFIGURATION EDITOR PARAMETERS

ANOTE: Depending upon module configuration, some values in the Main & Running Configuration Editors may not be available. For more information refer to DSE publication 057-262 DSE7410 MKII & DSE7420 MKII Configuration Suite PC Software Manual available from www.deepseaelectronics.com

Contrast	Section	Parameter As Shown On Display	Value
Language	Display	Contrast	0 %
Dual Mutual Mode			
Dual Mutual Mode			
Dual Mutual Priority			
Dual Mutual Duty Time		Dual Mutual Mode	
Dual Mutual Duty Time		Dual Mutual Priority	
Alt Config to Edit Config 1, 2, 3, 4 or 5 Default Configuration Default Configuration Default Configuration Default Configuration Oil Pressure Low Shutdown Oil Pressure Low Shutdown Oil Pressure Low Pre Alarm Coolant Temperature Low Warning Coolant Temperature High Pre Alarm Coolant Temperature High Pre Alarm Coolant Temperature High Electrical Trip Coolant Temperature High Electrical Trip Coolant Temperature High Shutdown O °C 0 °F Coolant Temperature High Shutdown Coolant Temperature High Shutdown Fuel Usage Running Rate Fuel Usage Stopped Rate Specific Gravity O 0.00 Pre Heat Temp O °C 0 °F Pre Heat Temp O °C 0 °F Post Heat Timer O h 0 m 0 s Post Heat Timer O h 0 m 0 s Droop Active / Inactive Droop Crank Disconnect Oil Pressure Delay Crank Disconnect Under Speed Shutdown Under Speed Shutdown Under Speed Warning Under Speed Warning Over Speed Delay Over Speed Warning Over Speed Shutdown Over Speed Warning Ov			
Default Configuration	Alt Config		
Default Configuration Default Configuration Oil Pressure Low Shutdown Oil Pressure Low Pre Alamm Oil Pressure Low Pre Alamm Ooil Pressure Low Pre Alamm Ooil Dard Dasi 0 KPa Coolant Temperature High Pre Alarm Coolant Temperature High Pre Alarm Coolant Temperature High Pre Alarm Ooil Pressure Low Area Maring Coolant Temperature High Pre Alarm Ooil Pressure Low Area Maring Coolant Temperature High Pressure Dasies Fuel Usage Running Rate Fuel Usage Stopped Rate Specific Gravity Ooil Pressure Dasies Specific Gravity Ooil Pressure Dasies Fuel Usage Stopped Rate Specific Gravity Ooil Pressure Doil Pressure Dasies Orion On Orion	Ait Coming	Config to Edit	
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MAIN CONFIGURATION EDITOR PARAMETERS (CONTINUED)

Section	Parameter As Shown On Display	Value
Generator	Nominal Frequency	0.0 Hz
(Continued)	Over Frequency Pre Alarm	0.0 Hz
(Over Frequency Shutdown	0.0 Hz
	Over Frequency Delay	0.0 s
	Frequency Overshoot	0 %
	Frequency Overshoot Delay	0 m 0.0 s
	CT Primary	0 A
	CT Secondary	0 A
	Earth CT Primary	0 A
	Full Load Rating	0 A
	Delayed Over Current	Active / Inactive
	Delayed Over Current	0 %
	Earth Fault Trip	Active / Inactive
	Earth Fault Trip	0 %
	kW Overload Trip	0 %
Mains	AC System	3 Phase, 4 Wire
DSE7420 MKII	Under Voltage Trip	0 V
Only	Over Voltage Trip	0 V
-	Under Frequency Trip	0.0 Hz
	Over Frequency Trip	0.0 Hz
Timers	Start Delay Off Load	0 h 0 m 0 s
	Start Delay On Load	0 h 0 m 0 s
	Start Delay Mains Fail	0 h 0 m 0 s
	Start Delay Telemetry	0 h 0 m 0 s
	Mains Transient Delay	0 m 0 s
	Engine Cranking	0 m 0 s
	Engine Cranking Rest	0 m 0 s
	Engine Smoke Limiting	0 m 0 s
	Engine Smoke Limiting Off	0 m 0 s
	Engine Safety On Delay	0 m 0 s
	Engine Warming	0 h 0 m 0 s
	ECU Override	0 m 0 s
	(Mains) Transfer Time	0 m 0.0 s
	Return Delay	0 h 0 m 0 s
	Engine Cooling	0 h 0 m 0 s
	Engine Fail To Stop Delay	0 m 0 s
	LCD Page Delay	0 h 0 m 0 s
	LCD Scroll Delay	0 h 0 m 0 s
	Sleep Timer	0 h 0 m 0 s
	Backlight Timer	0 h 0 m 0 s
Schedule	Schedule	Active / Inactive
	Schedule Period Bank 1	Weekly / Monthly
	0-1	Press Tick O to begin
	On Load / Off Load / Auto Start Inhibit,	editing then up or down when
	Week, On, Run Time and Day	selecting the different
ĺ	Selection (1 to 8)	parameters in the scheduler.
ĺ	Schedule Period Bank 2	Weekly / Monthly
	On Load / Off Load / Auto Start Inhibit,	Press Tick to begin
	Week, On, Run Time and Day	editing then up or down when
	Selection (1 to 8)	selecting the different
		parameters in the scheduler.

DIMENSIONS AND MOUNTING

Parameter	Specification
Dimensions	245 mm x 184 mm x 51 mm (9.6 " x 7.2 " x 2.0 ")
Panel Cut-out	220 mm x 160 mm (8.7 " x 6.3 ")
Weight	0.98 kg (2.16 lb)
Operating Temperature With Standard Display	-30 °C to +70 °C (-22 °F to +158 °F)
Operating Temperature With Heated Display	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +80 °C (-40 °F to +176 °F)

ACCESSING THE 'RUNNING' CONFIGURATION EDITOR

• The 'running' editor can be entered while the engine is running. All protections remain active if the engine is running while the running editor is entered.

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RUNNING CONFIGURATION EDITOR PARAMETERS

Section	Parameter As Shown On Display	Value
Display	Contrast	0%
	Language	English
	Dual Mutual Status	Set Priority (1 to 8)
Engine	Manual Frequency Trim	0.0 Hz
	Speed Bias	0.0 Unit
	Governor Gain	0.0
	Frequency Adjust	0 %
	DPF Auto Regeneration Inhibit	Active / Inactive
	DPF Manual Regeneration Request	Active / Inactive
	ECU Service Mode	Active / Inactive
	Escape Mode	Active / Inactive
AVR	Droop (% of Set Point)	0.0
	Proportional Set Point	0.0
	Integral Set Point	0.0
	Derivative Set Point	0.0
	Off Load Duty Cycle	0.0
	Maximum Duty Cycle	0.0
	Soft Start Ramp Start Point	0.0
	Soft Start Ramp Rate (%/Hz)	0.0
	Alternative Configuration	0
	Stability Selection	0

REQUIREMENTS FOR UL CERTIFICATION

WARNING!: More than one live circuit exists, see diagram overleaf for further information.

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 ½" (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 flat surface mounting in Type 1 Enclosure Type rating with surrounding air temperature -22 °F to +122 °F (-30 °C to +50 °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 installed in an unventilated or filtered ventilation enclosure to maintain a pollution degree 2 environment.
Operating Temperature	• -22 °F to +122 °F (-30 °C to +50 °C)