



DEEP SEA ELECTRONICS

DSE2510 MKII & DSE2520 MKII

Configuration Suite PC Software Manual

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Author: Bedig Boghossian

DEEP SEA ELECTRONICS PLC

Highfield House
Hunmanby
North Yorkshire
YO14 0PH
ENGLAND



Sales Tel: +44 (0) 1723 890099
Sales Fax: +44 (0) 1723 893303

E-mail : sales@Deepseapl.com
Website : www.deepseapl.com

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Amendments List

Issue	Comments
1	Initial release

Typeface: The typeface used in this document is *Arial*. Care must be taken not to mistake the upper case letter I with the numeral 1. The numeral 1 has a top serif to avoid this confusion.

TABLE OF CONTENTS

1	INTRODUCTION	4
1.1	BIBLIOGRAPHY	4
1.1.1	INSTALLATION INSTRUCTIONS	4
1.1.2	MANUALS	4
1.1.3	CLARIFICATION OF NOTATION.....	4
1.1.4	GLOSSARY OF TERMS.....	5
1.2	INSTALLATION AND USING THE DSE CONFIGURATION SUITE SOFTWARE	5
2	EDITING THE CONFIGURATION.....	6
2.1	SCREEN LAYOUT	6
2.2	MODULE OPTIONS	7
2.2.1	MODULE TIMERS	7
2.2.1.1	MODULE TIMERS.....	7
2.2.1.2	MISCELLANEOUS OPTIONS.....	8
2.3	COMMUNICATIONS	9
2.3.1	COMMUNICATIONS OPTIONS.....	9
2.3.2	DISPLAY PORT	10
2.3.3	MODBUS PASSTHROUGH PORT	11

1 INTRODUCTION

This document details the DSE2510 MKII & DSE2520 MKII software configuration using the DS Configuration Suite. The DSE2510 MKII & DSE2520 MKII remote display modules are converted from the DSE7310 MKII & DSE7320 MKII controllers using a Firmware Update, for more details check the DSE Publication: **057-278 DSE2510 MKII & DSE2520 MKII Operators Manual**.

The **DSE Configuration Suite PC Software** allows the DSE25xx MKII modules to be connected to a PC via USB A –USB B cable. Once connected the various operating parameters within the module are viewed or edited as required by the engineer. This software allows easy controlled access to these values.

This manual details the configuration of the DSE2510 MKII & DSE2520 MKII series controllers.

The older DSE2510 and DSE2520 modules configuration are covered in the host controllers' Software Manuals supporting the DSEnet port.

The DSE Configuration Suite PC Software must only be used by competent, qualified personnel, as changes to the operation of the module may have safety implications on the panel / generating set to which it is fitted. Access to critical operational sequences and settings for use by qualified engineers, may be barred by a security code set by the generator provider.

The information contained in this manual must be read in conjunction with the information contained in the appropriate module documentation. This manual only details which settings are available and how they may be used. A separate manual deals with the operation of the individual module (See section entitled *Bibliography* elsewhere in this document).

1.1 BIBLIOGRAPHY

This document refers to and is referred to by the following DSE publications which is obtained from the DSE website www.deepseapl.com

1.1.1 INSTALLATION INSTRUCTIONS




DSE PART	DESCRIPTION
053-232	DSE2510 MKII & DSE2520 installation instructions sheet
053-181	DSE7310 MKII & DSE7320 MKII installation instructions sheet
053-191	DSE7410 MKII & DSE7420 MKII installation instructions sheet

1.1.2 MANUALS

DSE PART	DESCRIPTION
057-151	DSE Configuration Suite PC Software Installation & Operation Manual
057-278	DSE2510 MKII & DSE2520 MKII Operator Manual
057-253	DSE7310 MKII & DSE7320 MKII Operator Manual
057-243	DSE7310 MKII & DSE7320 MKII Software Manual
057-263	DSE7410 MKII & DSE7420 MKII Operator Manual
057-262	DSE7410 MKII & DSE7420 MKII Software Manual

1.1.3 CLARIFICATION OF NOTATION

Clarification of notation used within this publication.

	NOTE:	Highlights an essential element of a procedure to ensure correctness.
	CAUTION!	Indicates a procedure or practice, which, if not strictly observed, could result in damage or destruction of equipment.
	WARNING!	Indicates a procedure or practice, which could result in injury to personnel or loss of life if not followed correctly.

1.1.4 GLOSSARY OF TERMS

Term	Description
DSE2510 MKII	DSE2510 MKII module/controller converted from the DSE7310 MKII
DSE2520 MKII	DSE2520 MKII module/controller converted from the DSE7320 MKII
DSE7xxx MKII	All modules in the DSE7xxx MKII range.
DSE7300 MKII, DSE73xx MKII	All modules in the DSE73xx MKII range.
DSE7310 MKII	DSE7310 MKII module/controller
DSE7320 MKII	DSE7320 MKII module/controller
DSE7400 MKII, DSE74xx MKII	All modules in the DSE74xx MKII range.
DSE7410 MKII	DSE7410 MKII module/controller
DSE7420 MKII	DSE7420 MKII module/controller

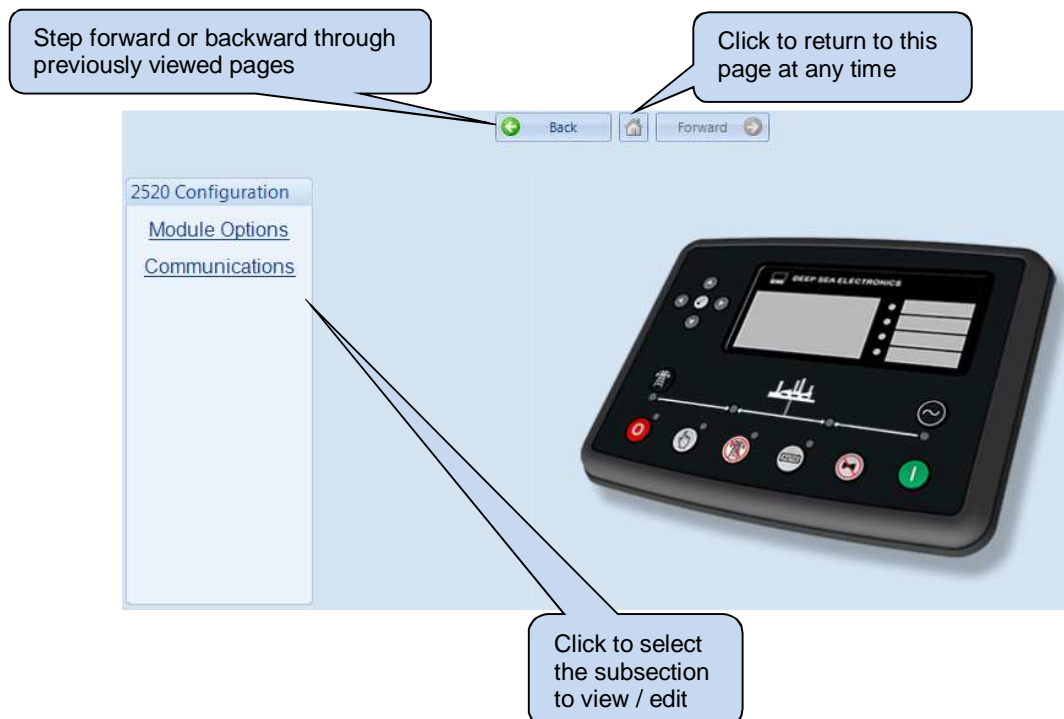
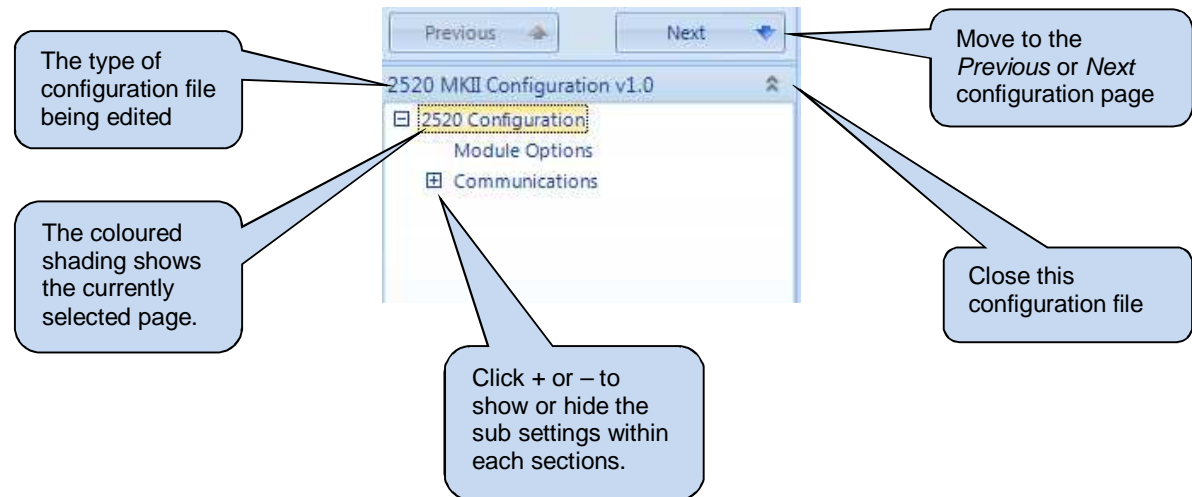
1.2 INSTALLATION AND USING THE DSE CONFIGURATION SUITE SOFTWARE

For information in regards to installing and using the DSE Configuration Suite Software please refer to DSE publication: **057-151 DSE Configuration Suite PC Software Installation & Operation Manual** which is found on our website: www.deepseapl.com

2 EDITING THE CONFIGURATION

This menu allows module configuration, to change the Slave ID, enabling ports, system timers and options to suit a particular application.

2.1 SCREEN LAYOUT

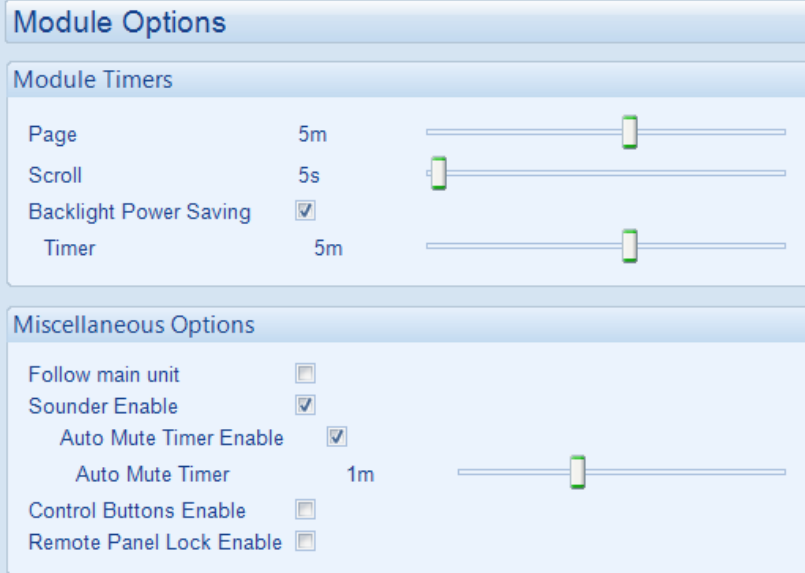


2.2 MODULE OPTIONS

Select this option to configure the options.

2.2.1 MODULE TIMERS

 **NOTE:** The Sleep Mode is disabled when the DSE25xx MKII remote display module is connected to the DSE7xxx MKII controller.



2.2.1.1 MODULE TIMERS

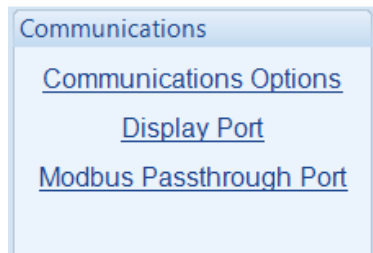
Parameter	Description
Page	If the module is left unattended for the duration of the <i>Page Timer</i> it reverts to show the <i>Status</i> page.
Scroll	The scroll time between parameters on a selected page.
Backlight Power Saving	<input type="checkbox"/> =Normal operation <input checked="" type="checkbox"/> = If the module is left unattended for the duration of the <i>Backlight Power Saving Timer</i> , the LCD backlight turns off.

2.2.1.2 MISCELLANEOUS OPTIONS

Parameter	Description
Follow Main Unit	<input type="checkbox"/> = If any control button is pressed, the host module does not respond. <input checked="" type="checkbox"/> = If any control button (Stop, Manual, Auto, Mute / Lamp Test, Start) is pressed and Control Buttons are enabled, the host module follows the DSE25xx MKII module.
Sounder Enable	<input type="checkbox"/> = Disable the DSE2500 MKII module's internal sounder <input checked="" type="checkbox"/> = Enable the DSE2500 MKII module's internal sounder.
Auto Mute Timer Enable	<input type="checkbox"/> = <i>Auto Mute</i> is disabled. <input checked="" type="checkbox"/> = The internal sounder activates for the duration of the <i>Auto Mute Timer</i> after which it automatically stops. Pressing the <i>MUTE</i> button during the timer also silences the sounder.
Control Buttons Enable	<input type="checkbox"/> = The display is for instrumentation only – the mode change buttons are disabled. <input checked="" type="checkbox"/> = The display acts as a complete mimic/control of the host module.
Remote Panel Lock Enable	<input type="checkbox"/> = The Remote Panel Lock is disabled. <input checked="" type="checkbox"/> = The DSE2500 MKII module is locked when Digital Input A is active.

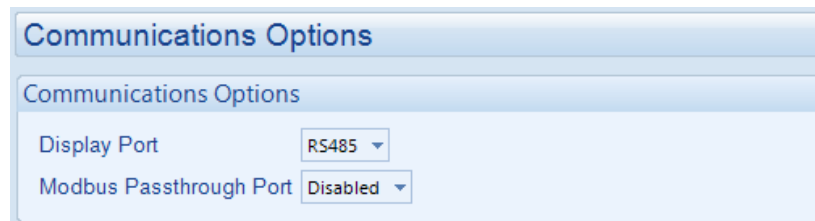
2.3 COMMUNICATIONS

The *Communications* section is subdivided into smaller sections. Select the required section with the mouse.



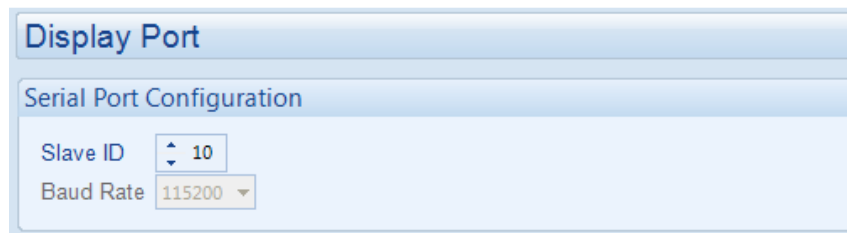
2.3.1 COMMUNICATIONS OPTIONS

 **NOTE:** The DSE2510 MKII & DSE2520 MKII modules DSEnet port are used as RS485 when *Display Port* is selected as RS485.



Parameter	Description
Display Port	<p>The options are :</p> <p>RS485: The DSE2500 MKII module's DSEnet is connected to the host controller's RS485 port for remote display.</p> <p>RS232: The DSE2500 MKII module is connected to the host controller through their RS232 port.</p>
Modbus Passthrough Port	<p>Disabled: MODBUS communication with the host controller through the Remote Display is disabled.</p> <p>Enabled: The DSE2500 MKII module allows MODBUS communication with its host controller through the DSE2500 MKII's RS485 port.</p>

2.3.2 DISPLAY PORT



The screenshot shows a configuration window titled "Display Port". Inside, there is a section titled "Serial Port Configuration". This section contains two parameters: "Slave ID" and "Baud Rate". The "Slave ID" is represented by a numeric spinner box currently showing the value "10". The "Baud Rate" is represented by a dropdown menu currently showing the value "115200".

Parameter	Description
Slave ID	The Slave ID of the DSE2500 MKII port used for the remote display.
Baud Rate	The remote display Baud Rate is fixed to 115200 cannot be changed.

2.3.3 MODBUS PASSTHROUGH PORT

Modbus Passthrough Port

Basic

Slave ID

10

Baud Rate

115200

Modbus

Inter-frame delay

0 ms

Parameter	Description
Slave ID	Factory Setting: 10 The Modbus Slave ID of the DSE2500 MKII RS485 port for <i>Modbus Passthrough</i> . This is the RS485 Slave ID that is used by the Modbus Master device used to query the host controller connected to the DSE2500 MKII. Modbus Requests sent to this address are relayed (Passthrough) to the DSE host controller connected to the DSE2500 MKII.
Baud Rate	Factory Setting: 115200 Baud rate of the RS485 port.
Iner-frame delay	Set the time delay between a MODBUS RTU request and the receipt of a response.

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