DEEP SEA ELECTRONICS
DSE94xx Battery Charger Series
Configuration Suite PC Software Manual

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DSE94xx Configuration Suite PC Software Manual

Amendments List

Issue	Comments
1	Initial release
2	Amendments of 9472, 9480, 9481

3	Amendments of 9470 & 9480 V2.0
	New features added:
	   - Digital Input
	   - Default Voltage Mode
	   - Battery Profile
	   - Configurable Gencom

4	Amendments for 9474 V1 and 9470/2 & 9480/1 V3.0
5	Amendments to cover the DSE9484 V1 and DSE9450 V1
6	Added the DSE9473 and DSE9483 battery chargers
7	Added DSE9452
8	Added DSE9462 dual output charger
9	Added DSE9479
10	DC Overvoltage Alarm removed from DSE9462, Configurable Short Circuit Alarm added to DSE9452
11	Updated battery profile image to show Bulk Trigger and Absorption Voltage.
12	Added DSENet configuration.
13	Amendments to DSENet options.
14	Updated for the DSE9473 new features (Soft Start, and Battery Self Test Range)
15	Updated to add the Stage Voltage Levels for all charger models
16	Note added for the Alarms

17	Added DSE9476, and updated the Soft Start feature in the DSE9470, DSE9472, DSE9480, DSE9481, DSE9483.
	Added in the DSE9470, DSE9472, DSE9480, DSE9481 chargers:
	   - Automatic Battery Voltage Detection
	   - Bulk to Absorption Trigger Level
	   - Charge Termination

18	Updated for the DSE9474 new features (Soft Start, Deep Sleep Mode, additional Scada Instrumentations support and more)
19	Updated for the DSE9476 new features (Max Current Mode and additional Scada Instrumentations support)
20	Updated 9470 to include PIN protection, configuration of mains relay alarm and battery temperature high shutdown. Lead crystal battery profile added.
21	Updated for DSE9470 / DSE9480 MKII v7.0
22	Updated for DSE9470MKII v7.1 / DSE9480MKIII v7.1

Typeface: The typeface used in this document is *Arial*. Care should 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.

⚠**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.**
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TABLE OF CONTENTS

1 BIBLIOGRAPHY

This document refers to and is referred to by the following DSE publications which can be obtained from the DSE website www.deepseaelectronics.com:

DSE PART	DESCRIPTION
053-049	DSE9000 Series Battery Charger Installation Instructions
057-085	DSE900 / 9100 / 9200 / 9400 Series Battery Charger Operator Manual
053-147	DSE9460 / DSE9461 Installation Instructions
057-176	DSE9460 / DSE9461 Operator Manual
053-175	DSE9474 / DSE9484 Installation Instructions
057-231	DSE9474 / DSE9484 Operator Manual
053-178	DSE9450 & DSE9452 & DSE9479 Installation Instructions
057-240	DSE9450 & DSE9452 Operator Manual
053-185	DSE9473 / DSE9483 Installation Instructions
053-189	DSE9462 Installation Instructions
057-255	DSE9462 Operator Manual
053-235	DSE9476 Installation Instructions
057-282	DSE9476 Operators Manul
057-264	DSE9479 Operator Manual

2 DESCRIPTION

This manual covers the operation of the DSE Configuration Suite for DSE94xx (DSE9460, DSE9461, DSE9470, DSE9472, DSE9473, DSE9474, DSE9476, DSE9480, DSE9481, DSE9483, DSE9484, DSE9450, DSE9452, DSE9462 & DSE9479) battery chargers. Separate manuals cover the remaining DSE modules supported by the software.

The **DSE Configuration Suite** allows the DSE9400 series to be connected to a PC via 'USB A –USB B' cable. Once connected the various operating parameters within the charger can be viewed or edited as required by the engineer. This software allows easy controlled access to these values and also has diagnostic monitoring facilities.

The **DSE Configuration Suite** should only be used by competent, qualified personnel, as changes to the operation of the module may have safety implications on the panel to which it is fitted.
The information contained in this manual should 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 charger (See section entitled *Bibliography* elsewhere in this document).

3 INSTALLATION AND USING THE DSE CONFIGURATION SUITE

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 can be found on our website: ***www.deepseaelectronics.com***

4   EDIT CONFIG

This menu allows module configuration, to change the function of Inputs, Outputs and LED's, system timers and level settings to suit a particular application.

4.1   SCREEN LAYOUT

⚠NOTE: The Charger Output 2 and Battery 2 sections are only available for the DSE9462 battery charger.

The type of configuration file being edited

The coloured shading shows the currently selected page.

Click + or – to show or hide the sub settings within each sections.

Previous ◆   Next ◆

Move to the *Previous* or *Next* configuration page

Close this configuration file

9462 Configuration v1.0

⊟ 9462
  ⊟ Charger
      Charger Settings
      Charger Output 1 - 24 V
      Charger Output 2 - 12 V
  ⊞ Battery 1 - 24 V
  ⊞ Battery 2 - 12 V
    Mains
    Communications
    Configurable Gencomm

9462 Configuration
Charger
Battery 1 - 24 V
Battery 2 - 12 V
Mains
Communications
Configurable Gencomm

Click to select the subsection to view / edit

4.2 CHARGER

⚠NOTE: When a *Shutdown Alarm* is active at the same time as a *User Configurable Alarm,* the *Shutdown Alarm* takes priority and switches the charger off.

4.2.1 CHARGER SETTINGS

Charger

Charger Settings

Site ID

Charger ID

Parameter	Description
Site ID	Enter the site ID of the charger.
Charger	Enter the charger ID of the DSE94xx charger.

4.2.2 DIGITAL INPUT

Allows for user configuration of the charger digital input.

Digital Input

Function   Switch to Alternative Voltage Mode ▼

Parameter	Description
Enable Battery Detection	When active, the battery charger detects the presence of the battery and illuminates its LEDs to indicate the status.
Lamp Test	This input illuminates all on board LEDs
Manual Boost	This input forces the charger into boost mode
Max Current Mode (Manual)	**Only available for DSE9476, DSE9470 MKII, DSE9480 MKII** When active, enables *Max Current Mode*. During this time, the charger sets the output current to maximum. Derating functions remain as standard.
Max Current Mode (Timed)	**Only available for DSE9476, DSE9470 MKII, DSE9480 MKII** When active, enables *Max Current Mode*. During this time, the charger sets the output current to maximum for the configured *Max Current Mode Timer*, during which charger deratings are disabled. Once this timer has elapsed the charger returns to normal operation.
Stop Charging	This input turns off the charger output
Switch To Alternative Voltage Mode	This input switches the output voltage to the alternative mode i.e. if the default voltage mode is set to 12 V, activating this input changes the output voltage to 24 V.

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4.2.3 VOLTAGE MODE

⚠️**NOTE: Not available for DSE9450, DSE9452, DSE9462, DSE9473, DSE9474, DSE9479, DSE9483 and DSE9484.**

The Battery Charger Auto Detects what type of Battery is connected .

Voltage Mode	
Default Voltage Mode	Auto Detect ▼
12V / 24V Switching Threshold	↕ 15.0 V DC

Default Voltage Mode	Description
Auto Detect	⚠️**NOTE: The Battery Type cannot be determined automatically by this feature, the user must still select the correct *Battery Type* from the *Battery Profile* section.**
	The charger automatically detects whether a 12 V or 24 V battery is connected by sensing the battery voltage level. The charger switches to the 12 V mode when the battery voltage is below the configured *Switching Threshold* level. The charger switches to the 24 V mode when the battery voltage is over the configured *Switching Threshold* level.
12 V	The charger assumes a 12 V battery is connected regardless of sensing the battery voltage level.
24 V	The charger assumes a 24 V battery is connected regardless of sensing the battery voltage level.

4.2.4 BATTERY CHARGER SELF TEST

⚠️**NOTE: *Battery Charger Self Test* is not available on the DSE9462 Intelligent Battery Charger.**

Battery Charger Self Test	
Enable	☑
Self Test Timer 5m	

Parameter	Description
Enable	☐ = Feature disabled. ☑ = The battery charger performs a self test in a regular interval set by the *Self Test Timer*. The alarm activates when an internal failure is detected.
Self Test Timer	Set the time interval between the *Battery Charger Self Test* runs.

4.2.5   CHARGER FAILURE

Charger Failure Alarm

Alternative Charge Source ☐

Delay   120 m ——————————□———— 2h 0m

Parameter	Description
Alternative Charge Source	☐ = The *Alternative Charge Source* is disabled and the *Charger Failure Alarm* activates when the battery charger measures a voltage higher than its output voltage. The alarm is delayed by the configurable *Delay* timer. ☑ = The *Alternative Charge Source* is enabled and the *Charger Failure Alarm* no longer activates when the battery charger measures a voltage higher than its output voltage. This typically occurs when a either a DC Alternator is fitted on a running engine or when the battery charger switches from *Bulk* mode to *Float* charging mode.In both scenarios the battery voltage is typically higher than the battery charger output voltage.
Delay	When the *Alternative Charge Source* is disabled, this sets the time delay for the *Charger Failure Alarm*.

4.2.6 SHORT CIRCUIT ALARM

⚠️**NOTE: Not available in the DSE9450 Intelligent Battery Charger's configuration.**

Short Circuit Alarm

Enable ☑

Delay ⬍ 10.0 s ▭

Parameter	Description
Enable	☐ = The *Short Circuit Alarm* is disabled; however the battery charger switches its output off when a short circuit is detected. ☑ = The *Short Circuit Alarm* is enabled and activates when a short circuit is detected for longer than the configurable *Delay* timer.
Delay	Set the time delay for the *Short Circuit Alarm*. This is useful to delay the alarm when the engine crank motor is engaged; the battery charger detects the current drawn by the crank motor as a short circuit. In this case, the charger immediately switches its output off for protection but the alarm is delayed.

4.2.7 SOFT START

⚠️**NOTE: Available only on the DSE9470, DSE9472, DSE9473, DSE9474, DSE9476, DSE9480, DSE9481 & DSE9483 Intelligent Battery Chargers.**

Short Circuit Alarm

Enable ☑

Delay ⬍ 10.0 s ▭

Parameter	Description
Enable	☐ = The *Soft Start* is disabled. ☑ = The *Soft Start* is enabled. The charger rises its output voltage to the required DC voltage level in steps, and takes longer time to reach the maximum output voltage level. This feature helps to reduce the inrush current caused by the capacitive loads or deeply discharged batteries.

4.2.8 RELAY ACTIVE FOR MAINS ALARMS

> ⚠ **NOTE: Available only on DSE9470, DSE9472, DSE948 and DSE9481.**

Relay Active For Mains Alarms	
Enable	☑

Parameter	Description
Enable	☐ = Fault relay does not activate upon Mains Voltage alarms. ☑ = Fault relay activates on all alarms.

4.2.9 MODULE PIN

> ⚠ **NOTE: Available only on DSE9470, DSE9472, DSE948 and DSE9481.**

Once set and the configuration containing the PIN has been sent to the battery charger, the PIN is required before further configuration changes can be made.

Module PIN			
Module PIN	****	Confirmation ****	*Module PIN does not match the Confirmation PIN*

4.2.10 MISCELLANEOUS OPTIONS

⚠️**NOTE: Only available for DSE9450, DSE9452, DSE9462, DSE9474, DSE9476, DSE9479, and DSE9484.**

⚠️**NOTE: The Sensing wires must be installed on the Battery Terminals.**

Miscellaneous Options

Sensing Wires Enabled ☐
Support Right-To-Left Languages in Module Strings ☐

Parameter	Description
Sensing Wires Enabled	☐ = Sensing Wires are inactive ☑ =.The Charger senses voltage on the Sensing Wires input. This allows the charger to automatically compentsate for a voltage drop across the actual Charger Wires.
Support Right To Left Languages in Module Strings	Determines the direction of text input where supported (i.e. configurable input text) ☐ = Left to right language support ☑ = Right to left language support

4.2.11 CABLE VOLTAGE DROP WARNING

⚠️**NOTE: Only available when the battery charger is connected to the battery with no active alarms and the mains supply is available.**

⚠️**NOTE: Only available when the option *Sensing Wires Enabled* is enabled. For more information see section titled *Miscellaneous Options* shown elsewhere in this manual.**

⚠️**NOTE: Only available for DSE9450, DSE9452, DSE9462, DSE9474, DSE9479, and DSE9484**

Cable Voltage Drop Warning

Enable ☑
Alarm   0.600 V DC
Alarm Delay 1.0s
Return   0.500 V DC
Return Delay 1.0s

Parameter	Description
Alarm	The alarm activates when the voltage difference between the battery charger output and the Battery Voltage Sensing terminals exceeds the *Alarm* trip setting for longer than the *Alarm Delay* duration.
Alarm Delay	
Return	The alarm is deactivated when the voltage difference between the battery charger output and the Battery Voltage Sensing terminals falls below the *Return* setting for longer than the *Return Delay* time.
Return Delay	

4.2.12 DEEP SLEEP MODE

Deep Sleep Mode

Enable ☑

Parameter	Description
Enable	☐ = *Deep Sleep Mode* is disabled. ☑ = Upon a Mains failure the Charger enters *Deep Sleep Mode*. *Deep Sleep Mode* disables the Charger Mircoprocessor as well as the Comm's port. This allows for a lower power consumption (less than 16 mA). *Deep Sleep Mode* becomes inactive upon the Mains returning.

4.2.13 PSU MODE

⚠ **NOTE: Only available for DSE9470 MKII & DSE9480 MKII v7.0**

PSU Mode

Enable ☑
Output Voltage ⇕ 24.000 V DC ──────────□──────
Current Limit ⇕ 100 % ──────────────□ 10.000 A

Parameter	Description
Enable	☐ = The module operates as a Battery Charger. ☑ = The module operates as a Power Supply within the user configured *Output Voltage* and *Current Limit* range. All other features that affect the *Output Voltage* are disabled.

4.3   BATTERY

The inputs page is subdivided into smaller sections.
Select the required section with the mouse.
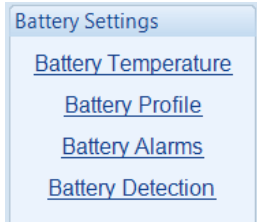
Battery Settings
Battery Temperature
Battery Profile
Battery Alarms
Battery Detection

4.3.1   BATTERY TEMPERATURE

Enable or disable the external Battery Temperature Sensor (PT1000). The relevant values below appear *greyed out* if the option is disabled.

Type the value or click the up and down arrows to change the settings

Click and drag to change the settings

Only available on DSE9470, DSE9472, DSE9480 and DSE9481

Parameters detailed overleaf…

Parameter	Description
Enable Temperature Sensor	☐ = External battery temperature sensor is not used, all other temperature settings are disabled and 'greyed out'. ☑ = The battery charger reads the battery temperature using the externally fitted PT1000 sensor. Other temperature settings are available as below.
Battery Temperature Warning	☐ = Warning alarm disabled. ☑ = Warning alarm is raised should the battery temperature exceed the *Alarm* level for longer than the *Alarm Delay* setting. The alarm is cancelled when the battery temperature falls below the *Return* level for longer than the period set in *Return Delay*.
Battery Temperature Shutdown	This feature cannot be disabled, however the alarm levels may be adjusted. *Alarm:* The charger output switches off when the temperature exceeds this setting for more than one second (this delay cannot be changed). *Return:* The charger output switches back on when the temperature falls below this setting.for more than one second (this delay cannot be changed).
Voltage Compensation / °C	**⚠NOTE: For further information on the temperature compensation, refer to the product's *Operator Manual* which can be found on our website: *www.deepseaelectronics.com*** Set the variation of the charger output voltage for each degree Celsius of temperature change. *This is normally specified by the battery manufacturer.*

4.3.2 BATTERY PROFILE

> ⚠️ **NOTE: For a 2-Stage charging profile, select a 3-Stage profile and configure Boost Voltage and Float Voltage to the same value.**

Click to select the appropriate battery charging profile for your batteries

Adjust the Current Limit of the charger output.

Choose between 3 Stage and 4 stage profile and set the number of battery cells

The value the charger output voltage must drop below to go into the *Bulk* charge state.

Not available in the DSE9450, DSE9452, DSE9462, DSE9476, DSE9479, DSE9484

Change the profile parameters to edit custom battery profiles

Parameters detailed overleaf…

4.3.2.1 PROFILE

Parameter	Description
Battery Profile	Select the appropriate battery charging profile for your batteries from the list: - Calcium - Lead Acid Antimony - Lead Crystal 12Ah - Lithium Phosphate - NiCd 18 Cell - NiCd 20 Cell - VRLA-AGM - VRLA-GEL - Wet (Vented) Lead Acid - Custom ⚠**NOTE: The Battery Type availability depends from the DSE Battery Charger model, select Custom to create the desired Battery Profile if the required Battery Type is not available in the list.**

4.3.2.2 SETTINGS

⚠**NOTE: Settings is configured when "Custom" is selected in *Profile*.**

Parameter	Description
Custom	Used to create or save new Battery Profile(s)
Automatic Max Current Mode Enable	**Only available for DSE9476** ☐ = Automatic Max Current Mode is disabled. ☑ = If a sudden rise in output current is detected the charger sets the output current to maximum for the configured *Max Current Mode Timer*, during which charger deratings are disabled. Once this timer has elapsed the charger returns to normal operation.
Max Current Mode Timer	**Only available for DSE9476** Defines the period for which the charger remains at full output current following the initiation of Max Current Mode, either automatically or by the *Max Current Mode (Timed)* digital input.
Current Limit	Set the maximum charging current limit during the Absorb stage.
Profile Stages	Define the number of stages 3 or 4.
Battery Cells	Define the number of battery cells.

4.3.2.3 CHARGE PROFILE

Parameter	Description
Absorption Voltage	The charge voltage level per cell during the *Absorb* stage.
Boost Voltage	The charge voltage level per cell during the *Bulk* stage.
Float Voltage	The charge voltage level per cell during the *Float* stage.
Bulk Trigger Voltage	⚠ **NOTE: This parameter is not available in the following chargers: DSE9450, DSE9452, DSE9462, DSE9479, DSE9484.** The battery's cell voltage value for the charger to go into the *Bulk* charge state when the cell voltage level is below the *Bulk Trigger Voltage* level.
Absorption Timer	The charging time at *Absorb* stage.
Float Timer	The charging time at *Float* stage
Storage Timer	The charging time at *Storage* stage
Storage Voltage	The charge voltage level per cell during the *Storage* stage.
Bulk To Absorption Trigger Level (%)	The output charge current level at which the DSE Battery Charger switches from *Bulk* stage to *Absorb* stage when it is reduced below the configured % level.
Charger Termination Enabled	☐ = The *Charger Termination* is disabled. ☑ = The *Charger Termination* is enabled. The DSE Intelligent Battery Charger terminates the charging when the charging current reaches below the configured *Charge Termination Threshold* % level.
Charge Termination Threshold (%)	The charge current percentage level below which the charging is terminated when the *Charger Termination* is enabled.
Charge Termination Timer	The time duration the charger waits with no charging before it starts charging again.

4.3.3 BATTERY ALARMS

4.3.3.1 OVER CURRENT ALARM

Over Current Alarm	
Trip	The alarm activates when the current drawn by the battery exceeds the *Trip* setting for longer than the *Trip Delay* duration.
Trip Delay	
Return	The alarm is deactivated when the current drawn by the battery falls below the *return* value setting for longer than the *Return Delay* duration.
Return Delay	

4.3.3.2 UNDER VOLTAGE ALARM

Under Voltage Alarm	
Trip	The alarm activates when the battery voltage falls below the *Trip* setting for longer than the *Trip Delay* duration.
Trip Delay	
Return	The alarm is deactivated when the battery voltage exceeds the *Return* setting for longer than the *Return Delay* duration.
Return Delay	

4.3.3.3 OVER VOLTAGE ALARM

⚠ **NOTE:** *DC Over Voltage Alarm* **configuration is not available in DSE9462.**

Over Voltage Alarm	
Trip	The alarm activates when the battery voltage exceeds the *Trip* setting for longer than the *Trip Delay* duration.
Trip Delay	
Return	The alarm is deactivated when the battery voltage falls below the *return* setting for longer than the *Return Delay* time duration.
Return Delay	

4.3.4 BATTERY DETECTION

> Enable or disable the alarms. The relevant value below appears *greyed out* if the option is disabled.

> Click and drag to change the settings

The *Battery Detection* feature allows the Charger to ensure a Battery is connected and healthy

Battery Detection	
Battery Detection Test	☐ = The Battery Charger does not attempt to detect if a battery is connected. ☑ = The Battery Charger does attempt to detect if a battery is connected according the parameters listed below.
Battery Detection Threshold	During the *Battery Detection* test, the charger reduces its output voltage to 0.5 V below the *Battery Detection Threshold*. The battery voltage is then monitored for 2 seconds. If the battery voltage falls below the configured *Battery Detection Threshold,* the battery charger considers the battery to be *Disconnected* and issues a *Warning* alarm for *Battery Disconnected.*
Battery Detection Rate	The time period between *Battery Detection* Tests.
Battery Detection Mode	*Latching:* Upon the *Battery Disconnected Alarm* becoming active, the Battery Charger output voltage remains at the *Battery Detection Threshold* until the alarm is cleared. No more *Battery Detection Tests* take place until the alarm is cleared. The alarm is cleared by either power cycling the Battery Charger or if the battery voltage rises above the *Battery Detection Threshold* value. ***Auto Recovery:*** Upon the *Battery Diconnected Alarm* becoming active, the Battery Charger output voltage remains at *Battery Detection Threshold* and the *Auto Recovery Timer* begins. Upon completion of the *Auto Recovery Timer,* the battery charger output voltage rises to the *Bulk Trigger Voltage* and normal charging resumes. The test is repeated at the *Battery Detection Rate* interval. The alarm is cleared by either power cycling the Battery Charger or if the voltage rises above the *Battery Detection Threshold* value at the next scheduled *Battery Detection Test.*
Battery Detection Test Period Enable	☐ = Upon the *Battery Detection Test* becoming active the Battery Charger output voltage falls to 0.5 V below the *Battery Detection Threshold.* The battery voltage is then monitored for 2 seconds. ☑ = Upon the *Battery Detection Test* becoming active the Battery Charger output voltage falls to 0.5 V below the *Battery Detection Threshold* for the duration of *Battery Detection Test Period* timer. Upon completion of the *Battery Detection Test Period* timer the battery voltage is then monitored for 2 seconds. This is used to obtain an accurate indication of battery condition when a standing load is applied but Battery Charger supply is not available (typically during Battery Charger mains supply failure).

4.4   MAINS

Mains Over Voltage Alarms	
Trip	The alarm activates when the Mains voltage exceeds the *Trip* setting for longer than the "Trip Delay" duration.
Trip Delay	
Return	The alarm is deactivated when the Mains voltage falls below the *Return* setting for longer than the *Return Delay* duration
Return Delay	

Mains Under Voltage Alarms	
Trip	The alarm activates when the Mains voltage falls below the *Trip* setting for longer than the *Trip Delay* duration.
Trip Delay	
Return	The alarm is deactivated when the Mains voltage exceeds the *Return* setting for longer than the "Return Delay" duration.
Return Delay	

4.5   COMMUNICATIONS

RS485 Port	
Communications Mode	**RS485:** Configures the RS485 port to be used for MODBUS communication **DSENet:** Configures the RS485 port to be used for DSENet communication
Basic Slave ID Baud Rate	The Modbus Slave address and RS485 baud rate. **Slave ID:** This is used when connecting the RS485 port to a Modbus Master device. **Baud Rate:** The communications link speed. Adjustable from 4800 to 115200.
Advanced Master Inactivity Timeout	**Master Inactivity Timeout:** Modbus timer to enable the charger to detect when the Modbus Master is no longer communicating.
DSENet	The DSENet slave address This is used when connecting the RS485 port to a DSE module's DSENet port.
CAN Port	**Only available for DSE9474, DSE9479, DSE9484, DSE9450 & DSE9452** The CANbus source address This is used when connecting the CAN port to a CAN device.

4.6   CONFIGURABLE GENCOM

⚠️**NOTE: Configurable Gencomm pages are NOT available in DSE9470, DSE9472, DSE9480 and DSE9841.**

For Modbus users of the battery charger, configurable Gencomm pages are available.
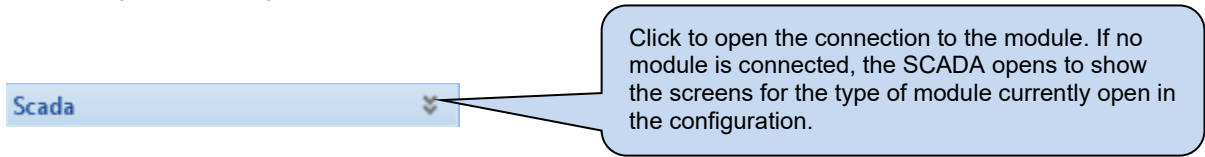
Configurable Gencomm

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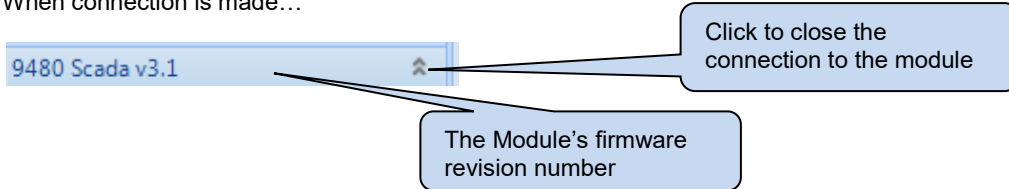| Register	Value	Register	Value	Register	Value	Register	Value
0-1	\<Not Used>	64-65	\<Not Used>	128-129	\<Not Used>	192-193	\<Not Used>
2-3	\<Not Used>	66-67	\<Not Used>	130-131	\<Not Used>	194-195	\<Not Used>
4-5	\<Not Used>	68-69	\<Not Used>	132-133	\<Not Used>	196-197	\<Not Used>
6-7	\<Not Used>	70-71	\<Not Used>	134-135	\<Not Used>	198-199	\<Not Used>
8-9	\<Not Used>	72-73	\<Not Used>	136-137	\<Not Used>	200-201	\<Not Used>
10-11	\<Not Used>	74-75	\<Not Used>	138-139	\<Not Used>	202-203	\<Not Used>
12-13	\<Not Used>	76-77	\<Not Used>	140-141	\<Not Used>	204-205	\<Not Used>
14-15	\<Not Used>	78-79	\<Not Used>	142-143	\<Not Used>	206-207	\<Not Used>
16-17	\<Not Used>	80-81	\<Not Used>	144-145	\<Not Used>	208-209	\<Not Used>
18-19	\<Not Used>	82-83	\<Not Used>	146-147	\<Not Used>	210-211	\<Not Used>
20-21	\<Not Used>	84-85	\<Not Used>	148-149	\<Not Used>	212-213	\<Not Used>
22-23	\<Not Used>	86-87	\<Not Used>	150-151	\<Not Used>	214-215	\<Not Used>
24-25	\<Not Used>	88-89	\<Not Used>	152-153	\<Not Used>	216-217	\<Not Used>
26-27	\<Not Used>	90-91	\<Not Used>	154-155	\<Not Used>	218-219	\<Not Used>
28-29	\<Not Used>	92-93	\<Not Used>	156-157	\<Not Used>	220-221	\<Not Used>
30-31	\<Not Used>	94-95	\<Not Used>	158-159	\<Not Used>	222-223	\<Not Used>
32-33	\<Not Used>	96-97	\<Not Used>	160-161	\<Not Used>	224-225	\<Not Used>
34-35	\<Not Used>	98-99	\<Not Used>	162-163	\<Not Used>	226-227	\<Not Used>
36-37	\<Not Used>	100-101	\<Not Used>	164-165	\<Not Used>	228-229	\<Not Used>
38-39	\<Not Used>	102-103	\<Not Used>	166-167	\<Not Used>	230-231	\<Not Used>
40-41	\<Not Used>	104-105	\<Not Used>	168-169	\<Not Used>	232-233	\<Not Used>
42-43	\<Not Used>	106-107	\<Not Used>	170-171	\<Not Used>	234-235	\<Not Used>
44-45	\<Not Used>	108-109	\<Not Used>	172-173	\<Not Used>	236-237	\<Not Used>
46-47	\<Not Used>	110-111	\<Not Used>	174-175	\<Not Used>	238-239	\<Not Used>
48-49	\<Not Used>	112-113	\<Not Used>	176-177	\<Not Used>	240-241	\<Not Used>
50-51	\<Not Used>	114-115	\<Not Used>	178-179	\<Not Used>	242-243	\<Not Used>
52-53	\<Not Used>	116-117	\<Not Used>	180-181	\<Not Used>	244-245	\<Not Used>
54-55	\<Not Used>	118-119	\<Not Used>	182-183	\<Not Used>	246-247	\<Not Used>
56-57	\<Not Used>	120-121	\<Not Used>	184-185	\<Not Used>	248-249	\<Not Used>
58-59	\<Not Used>	122-123	\<Not Used>	186-187	\<Not Used>	250-251	\<Not Used>
60-61	\<Not Used>	124-125	\<Not Used>	188-189	\<Not Used>	252-253	\<Not Used>
62-63	\<Not Used>	126-127	\<Not Used>	190-191	\<Not Used>	254-255	\<Not Used>

5 SCADA

SCADA stands for **S**upervisory **C**ontrol **A**nd **D**ata **A**cquisition and is provided both as a service tool and also as a means of monitoring / controlling the module.
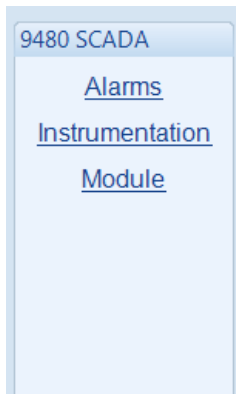As a service tool, the SCADA pages are to check the operation of the controller's inputs and outputs as well as checking the operating parameters.

Scada

> Click to open the connection to the module. If no module is connected, the SCADA opens to show the screens for the type of module currently open in the configuration.

When connection is made…

9480 Scada v3.1

> Click to close the connection to the module

> The Module's firmware revision number

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

9480 SCADA

Alarms
Instrumentation
Module

5.1   ALARMS

Shows any present alarm conditions.

Alarms	
Shutdown alarms	**Warning Alarms**
Mains Voltage Low	Battery Under Volts

5.2   INSTRUMENTATION

⚠ **NOTE: The chargers Scada Instrumentation page shows different instruments depending on each charger what instruments they support.**

Shows the DSE Intelligent Chargers instrumentation parameters.

The DSE9474 and 9476 chargers includes Charge State Time Remaining, Time Until Next Battery Test, Time Until Next Self Test, and Digital Input function and its status.

5.3   MODULE

Shows the chargers software versions and identity information.

Software Version
2.3

Module ID
151916650F

Bootloader Version
1.2

Description
Module Identity: DSE Battery Charger Site Identity: Deep Sea Electronics PLC

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