DSE**WebNet**® provides a web-based control and monitoring solution for DSE control modules all over the globe. DSE**WebNet**® supports single or multi-set systems via a range of devices, which support a suitable internet browser. This includes Laptop / PC, Smart Phone or Tablet devices.

On-screen information presents real-time generator and system information in an easy to use format with a flexible means of data transmission through Ethernet or GSM 3G via the DSE**WebNet® Gateway** device. Location information can be provided by an external GPS antenna connected to the DSE**WebNet® Gateway** device.

www.deepseaplc.com

#### KEY BENEFITS

- Reduced site visits
- and maintenance costs
- Fuel management
- Fault analysis
- Asset tracking
- Automatic system alerts
- Maximises system up-time



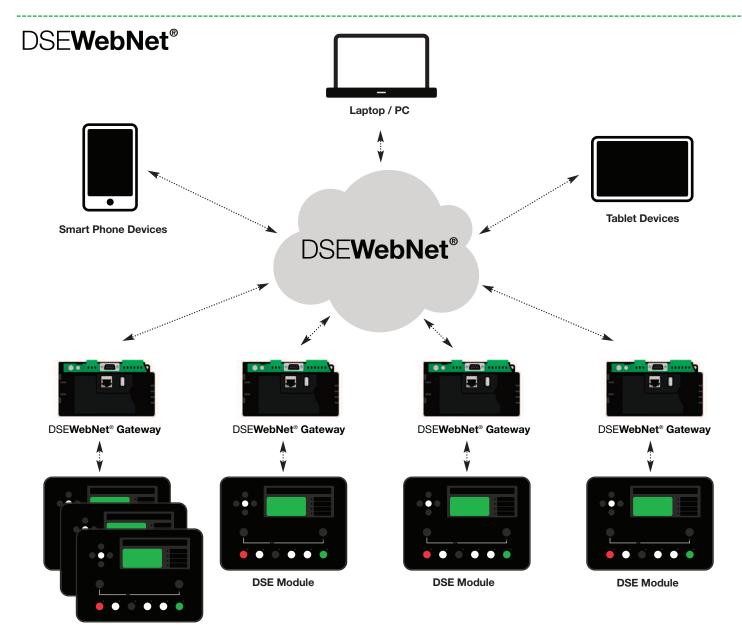
# DSEWebNet®

ADVANCED COMMUNICATIONS SOLUTION

#### SUPPORTS COMMUNICATIONS THROUGH MULTIPLE PLATFORMS



\*Google Chrome or Internet Explorer 9 recommended for optimisation



DSE Module

## DSEWebNet® IS THE IDEAL SOLUTION FOR EFFICIENT GENSET MAINTENANCE, FLEET MANAGEMENT, ASSET TRACKING, REMOTE/PERIODIC GENSET TESTING, FUEL MANAGEMENT, FAULT ANALYSIS & MUCH MORE.

The DSEWebNet® system offers features such as mapping with static locations, real time instrumentation and control, event log tables and automatic system alerts which are sent to multiple DSEWebNet® users via email and SMS.

Comprehensive on-screen information is presented in clear, graphical and numerical formats which is easy to navigate and operate.

DSE**WebNet**® can be utilised to maximise system up-time by offering the most effective remote management tool.

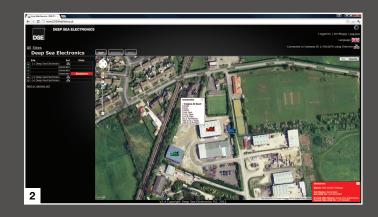
The DSEWebNet® Gateway device provides the user with full instant access to the DSEWebNet® system. A single Gateway device can be connected to a maximum of twenty supported DSE controllers. This creates a vast and extensively featured remote control and site monitoring solution.

An unlimited number of DSEWebNet® users can access a single Gateway device. Additionally a single user can access an infinite number of Gateway devices. To gain access to either the Gateway Device or the DSEWebNet®, secure login information is required. This low cost solution makes the system a secure and effective remote monitoring and control solution for multiple users and sites.

MANY OTHER SCREENS ARE AVAILABLE SHOWING A COMPREHENSIVE LIST OF ENGINE, GENERATOR, MAINS AND SYSTEM INFORMATION.

DSEWebNet<sup>®</sup> IS DESIGNED TO WORK IN CONJUNCTION WITH THE DSEWebNet<sup>®</sup> Gateway DEVICE AND IS AVAILABLE TO USE AFTER GATEWAY INSTALLATION.





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| Live Web Service - Dill PL/ ×                                    |                                               |                                                  |
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| DEEP SEA ELECTRO                                                 | NICS                                          | ¢.                                               |
|                                                                  |                                               |                                                  |
| DSE                                                              |                                               | Larouse: 💴                                       |
| All Sites                                                        |                                               |                                                  |
| Deep Sea Electronics                                             |                                               | Connected to Gateway ID 117816EFE using Ethernet |
| Generator                                                        |                                               |                                                  |
| INFO                                                             |                                               |                                                  |
| Alarm Level: ticce                                               |                                               |                                                  |
| USB 10: 10130526EF                                               |                                               |                                                  |
| Hodel: 7320                                                      |                                               |                                                  |
| Engine/Generator States Running                                  |                                               |                                                  |
|                                                                  |                                               |                                                  |
| Load State: Closed to Generator<br>Supervisor State: Fun On Load |                                               |                                                  |
| Mode State: Hancel                                               |                                               |                                                  |
|                                                                  | G Common Shutdown<br>H Common Districul Tra   |                                                  |
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| Lopped Event Date and Time Expire in                             |                                               |                                                  |
| Englise Thopped Pit Aug 31 2012 12:00-45 13:18                   |                                               |                                                  |
| Engine Start Fil App 31 2012 11 59:52 13.17                      |                                               |                                                  |
| Engline (Bart Fit Aug 31 2012 11 (61.11 9.16)                    |                                               |                                                  |
| Engine Desped Fit Aug 31 2012 11 05 32 9 36                      |                                               |                                                  |
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| Thadown                                                          |                                               |                                                  |
| OI Pressure Low Pit Aug 31 2012 11 95:29 9:36<br>Viaming         |                                               |                                                  |
| OI Pressure Low PX Aug 31 2012 11 05 29 9 36<br>Shuldown         |                                               |                                                  |
| Emergency Stop Fil Aug 31 2012 11 05:29 9:36<br>Struktiown       | ( ) Hars Available                            |                                                  |
| Gen Under Voltage Pit Aug 31 2012 11:05:29 9:36<br>Vitaming      | Mars breaker Gen breaker                      |                                                  |
|                                                                  |                                               |                                                  |
|                                                                  |                                               |                                                  |
| 6                                                                | V2.4 Copyright Deep Sea Electronics PLC 2012. |                                                  |

Screen examples show the following information:

- 1. Global mapping shows multiple site locations
- 2. Aerial view of a single site location with multiple generators
- 3. Multiple or single site generator event recording & monitoring
- 4. Engine monitoring
- Generator & mains monitoring
   DSE controller input & output state diagnostics

## DSEWebNet® Gateway

## COMMUNICATIONS INTERFACE

The DSEWebNet Gateway is used in conjunction with supported DSE controllers to provide monitoring and communications data via the DSEWebNet® advanced communications system.

The DSE**WebNet Gateway** communicates to the connected DSE controller(s), monitoring the instrumentation and operating state. When this data changes, the new data is logged in the internal memory. At regular intervals the logged data is transmitted to the DSE host server.

The DSE host server is then integrated into the DSE **WebNet**® which can be accessed via an internet connected device and web browser to allow remote monitoring and control of multiple DSE controllers around the globe. GSM, GPS and GSM/GPS antenna's are available as accessories.

#### DSE**890**

DSEWebNet®Gateway - 3G (GSM)/Ethernet

The Gateway connects to the DSE data server by integral Ethernet connection or GPRS (DSM or 3G mobile internet) and includes GPS (satellite location) functionality. This is most suited to remote and/or mobile locations.

#### DSE891 DSEWebNet®Gateway - Ethernet Only

The Gateway connects to the DSE data server by an integral Ethernet connection only. This is most suited for fixed installations where an ADSL / DSL cable broadband service is available (external broadband modem required, not supplied by DSE).



#### SPECIFICATION

DC SUPPLY

CONTINUOUS VOLTAGE RATING 8 V to 35 V continuous

#### CRANKING DROPOUTS

Able to survive 0 V for 50 mS, providing supply was at least 10 V before dropout and supply recovers to 5 V. This is achieved without the need for internal batteries

#### MAXIMUM OPERATING CURRENT

 GSM
 700 mA at 12 V, 450 mA at 24 V

 GSM & GPS
 700 mA at 12 V, 450 mA at 24 V

 Ethernet
 200 mA at 12 V, 450 mA at 24 V

 Ethernet & GPS
 700 mA at 12 V, 450 mA at 24 V

#### MAXIMUM STANDBY CURRENT

 GSM
 270 mA at 12 V, 150 mA at 24 V

 GSM & GPS
 270 mA at 12 V, 150 mA at 24 V

 Ethernet
 150 mA at 12 V, 90 mA at 24 V

 Ethernet & GPS
 270 mA at 12 V, 150 mA at 24 V

#### COMMUNICATIONS

USB (Single DSE Controller) RS232 (Single DSE Controller) RS485 (Multiple DSE Controllers) Ethernet (Multiple DSE Controllers)

DIMENSIONS

85mm x 149mm x 51mm

#### ENVIRONMENTAL TESTING STANDARDS

#### ELECTRO-MAGNETIC COMPATIBILITY

BS EN 61000-6-2 EMC Generic Immunity Standard for the Industrial Environment BS EN 61000-6-4 EMC Generic Emission Standard for the Industrial Environment

#### ELECTRICAL SAFETY

BS EN 60950 Safety of Information Technology Equipment, including Electrical Business Equipment

#### TEMPERATURE

BS EN 60068-2-1 Ab/Ae Cold Test -30 °C BS EN 60068-2-2 Bb/Be Dry Heat +70 °C

#### VIBRATION

BS EN 60068-2-6 Ten sweeps in each of three major axes 5 Hz to 8 Hz @ +/-7.5 mm, 8 Hz to 500 Hz @ 2 gn

#### HUMIDITY

BS EN 60068-2-30 Db Damp Heat Cyclic 20/55 °C @ 95% RH 48 Hours BS EN 60068-2-78 Cab Damp Heat Static 40 °C @ 93% RH 48 Hours

SHOCK

BS EN 60068-2-27 Three shocks in each of three major axes 15 gn in 11 mS

CE

### RELATED MATERIALS TITLE

| DSEGateway DSE890 Installation Instructions | 053-140              |
|---------------------------------------------|----------------------|
| DSEGateway DSE890 Hardware Manual           | 057-165              |
| DSEWebnet Software Manual                   | 057-168              |
| ACCESSORIES                                 |                      |
|                                             |                      |
| PART                                        | PART NO'S            |
| GSM Antenna                                 | PART NO'S<br>020-141 |
|                                             |                      |

#### COMPATIBLE DSE CONTROLLERS INCLUDE: AUTO START MODULES

MODULES DSE7210 DSE7310 DSE7410 DSE8610

DSE4410

DSE6010

DSE6110

## AUTO MAINS FAILURE MODULES DSE4420 DSE7220 DSE6020 DSE7320 DSE6120 DSE7420

DSE7110 DSE8610 DSE7120 The DSEWebNet Gateway will soon be compatible with the DSE45xx, DSE87xx & DSE88xx range of Genset Controllers.

#### DEEP SEA ELECTRONICS PLC UK

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Deep Sea Electronics Plc maintains a policy of continuous development and reserves the right to change the details shown on this data sheet without prior notice. The contents are intended for guidance only.

PART NO'S

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