



## DEEP SEA ELECTRONICS

### SYNC LOCK INSTALLATION INSTRUCTIONS

## Description

**The DSE7570 Sync Lock Controller has been designed for manual connection and disconnection from the mains/utility supply.**

**The Sync Lock Controller provides a user friendly zero-sync/phase locking solution that is integrated easily with generators controlled by the DSE7510 Load Share module.**

With forward and backward synchronising with the mains/utility supply, the DSE7570 is ideal for temporary generator installations.

Where access is restricted, the DSE Sync Lock Interface is used to provide up to a maximum distance of 200 m between the DSE7570 Sync Lock Controller and the DSE7510 Load Share module.

The DSE7570 Sync Lock Controller is supplied in a robust case (IP67 when closed, IP65 when open in use) and interface box with connections to the DSE7510 controlled generator.

## Typical Applications

- Generator hire
- Local sub-station maintenance, service and repairs
- Emergency power provision
- Temporary power solutions

## Dimensions

### **SyncLock Case**

406 mm x 330 mm x 174 mm  
(16.0 " x 13.0 " x 6.9 ")

### **Expansion box**

122 mm x 120 mm x 55 mm  
(4.8 " x 4.7 " x 2.2 ")

### **Interface box cable**

1 m (3 ft) supplied, extension possible.

### **SyncLock Control extension cable**

Maximum 200 m (666 ft)

#### **Deep Sea Electronics Plc.**

Tel: +44 (0)1723 890099

Fax: +44 (0)1723 893303

Email: [support@deepseapl.com](mailto:support@deepseapl.com)

Web: [www.deepseapl.com](http://www.deepseapl.com)

#### **Deep Sea Electronics inc.**

Phone: +1 (815) 316-8706

Fax: +1 (815) 316-8708

TOLL FREE (USA only)

Tel: 1 866 636 9703

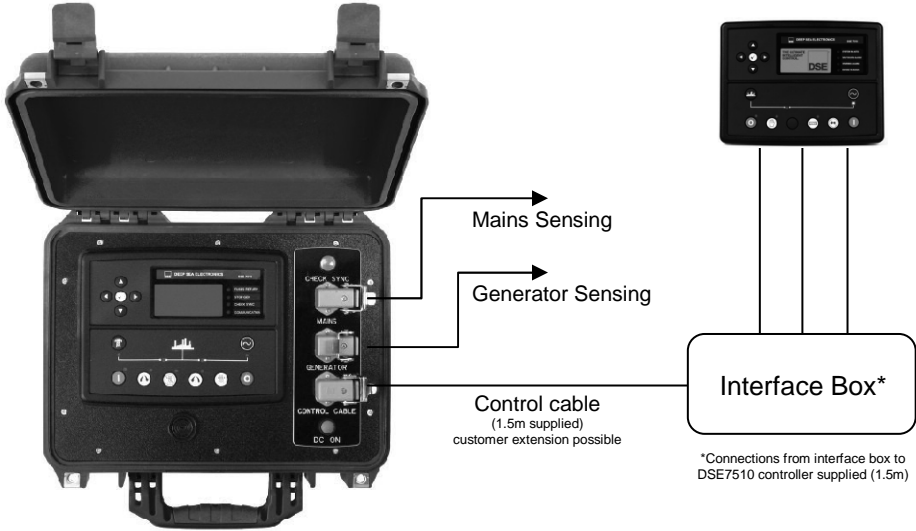
Email: [dseales@deepseausa.com](mailto:dseales@deepseausa.com)

Web: [www.deepseausa.com](http://www.deepseausa.com)

# Connections

DSE 7570 Sync Lock

DSE 7510  
generator controller



## Mains and Generator Sensing Connections

Mains and Generator sensing cables are manufactured as follows :

Connection	Signal
CN2	L1
CN3	L2
CN4	L3
CN5	N

Plug details	Part number	Manufacturer
Connector Hood	10426500	Contact Connectors
Connector Insert	10432000	Contact Connectors

It is recommend to terminate the sensing cables with fused crocodile clips.

Suitable parts are Silvertronic Part No 126065/Black + Part No.125041/Black and Silvertronic Part No 126024/Green + Part No.125041/Green.

## Control Cable Extension

Should it be necessary to extend the control cable between the Sync Lock device and Interface Box, this is achieved as below (maximum of 200 m using Belden 9843 cable).

The extension is 'straight through' (ie 1-1, 2-2, 3-3, 4-4, 5-5, 6-6, 7-7) with one end male, the other female.

Parts list (Manufacturer Contact Connectors)

Female End		
Description	Qty	Part
Hood	1	10426500
Insert	1	11251500
Pins	7	13163500

Male End		
Description	Qty	Part no
Hood	1	10429500
Insert	1	11250500
Pins	7	13162500