

DSE7570

REMOTE SYNC LOCK CONTROLLER

FEATURES



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 easily integrated with generators controlled by the DSE7510 or DSE8610 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 or DSE8610 Load Share module.

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

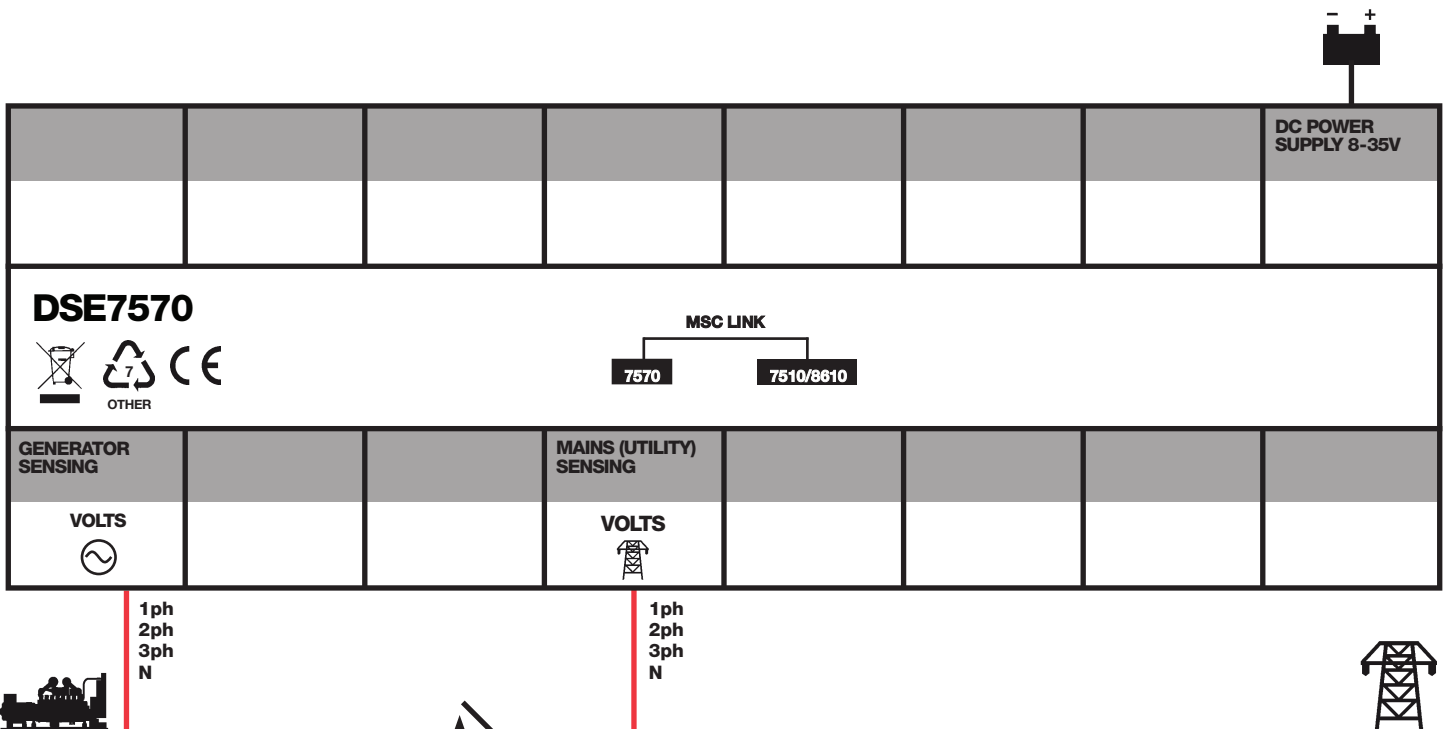
SHOCK

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

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS EN 60529
IP67 - When case is closed.

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF GEN-SET HIRE APPLICATIONS



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SYNC LOCK CONTROLLER

FEATURES



DSE7570
SYNC LOCK



DSE7510/DSE8610
GENERATOR CONTROLLER



MAINS (UTILITY) SENSING

GENERATOR SENSING

CONTROL CABLE

(1.5m supplied)
customer extension possible

INTERFACE BOX*

*Connections from interface box to
DSE7510 / DSE8610 controller supplied
(1.5m)

KEY BENEFITS

- Provides a user-friendly zero-sync/phase locking solution, ideal for temporary generator installations, including forward and backward synchronising with the mains (utility)
- No-break removal and return of mains (utility) fuses
- Interface provides application flexibility where access is limited

TYPICAL APPLICATIONS

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

RELATED MATERIALS

TITLE

DSE7570 Installation Instructions
DSE7570 Operator Manual
DSE7510 Data Sheet
DSE123 Data Sheet
DSE8610 Data Sheet

PART NO'S

053-083
057-132
055-065
055-044
055-083

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. LEDs and backlight will not be maintained during cranking.

MAXIMUM OPERATING CURRENT

150 mA at 12 V, 80 mA at 24 V

MAXIMUM STANDBY CURRENT

50 mA at 12 V, 30 mA at 24 V

MAINS (UTILITY)

VOLTAGE RANGE
15 V - 333 V AC (L-N)

FREQUENCY RANGE
3.5 Hz to 75 Hz

GENERATOR

VOLTAGE RANGE
15 V - 333 V AC (L-N)

FREQUENCY RANGE
3.5 Hz to 75 Hz

DIMENSIONS

SYNC LOCK CASE
406 mm x 330 mm x 174 mm
(16.0" x 13.0" x 6.9")

INTERFACE BOX

(To be ordered separately)
122 mm x 120 mm x 55 mm
(4.8" x 4.7" x 2.2")

SYNC LOCK INTERFACE EXTENSION CABLE (NOT AVAILABLE FROM DSE)

3 pair twisted individually screened cable
Maximum 200 m (666 ft)

OPERATING TEMPERATURE RANGE

-30°C to +70°C

STORAGE TEMPERATURE RANGE

-40°C to +80°C

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