



DSE**8610** O START LOAD SHARE MODULE

FEATURES

designed to synchronise up to 32 generators including electronic and non-electronic engines. The DSE8610 monitors the generator and indicates operational

The DSE8610 is an easy to use

multi-generator loadshare system,

status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.

System alarms are annunciated on the LCD screen (multiple language options available), illuminated LED and audible sounder.

The event log will record 250 events to facilitate easy maintenance. An extensive number of fixed and flexible monitoring, metering and protection features are included as well as comprehensive communication and system expansion options.

Using the DSE PC Configuration Suite Software allows easy alteration of the operational sequences, timers and alarms. With all communication ports capable of being active at the same time, the DSE8610 is ideal for a wide variety of demanding load share applications.

KEY LOAD SHARE FEATURES:

- · Peak lopping
- Sequential set start
- Manual voltage/frequency adjustment
- R.O.C.O.F. and vector shift
- Generator load demand
- Automatic hours run balancing
- Mains (Utility) de-coupling Mains (Utility) de-coupling
- test mode
- Dead bus sensing
- Bus failure detection
- Direct governor and AVR control
- Volts and frequency matching
- kW and kV Ar load sharing

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 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 5Hz to 8Hz @ +/-7.5mm, 8Hz to 500Hz @ 2gn

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

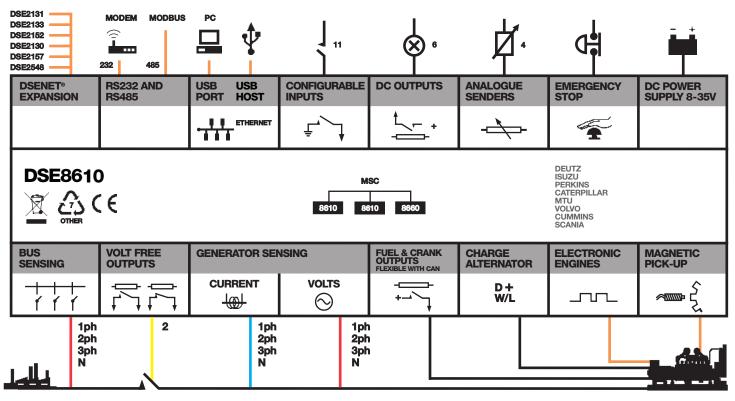
Three shocks in each of three major axes 15gn in 11mS

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS EN 60529

IP65 - Front of module when installed into the control panel with the supplied sealing gasket.

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF LOAD SHARE APPLICATIONS





















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FEATURES





KEY FEATURES

- Comprehensive loadshare capabilities
- Configurable inputs (11)
- Configurable outputs (8)
- Voltage measurement
- Built-in governor and AVR control
- kW overload alarms
- Comprehensive electrical protection
- Magnetic pick-up
- Electronic engine capability
- RS232 & RS485 remote communications
- Modbus RTU
- PLC functionality
- Multi event exercise timer
- Back-lit LCD 4-line text display
- Multiple display languages
- Automatic start/Manual start
- Audible alarm

TITLE

Reduced file transfer time

DSE8610 Installation Instructions

DSE8610 Operator Manual DSE8600 PC Configuration Suite Manual

RELATED MATERIALS

DSE8660 Date Sheet

- · Fixed and flexible LED indicators
- Event log (250)
- Engine protection
- Fault condition notification to a designated PC
- Protected front panel programming
- PC configuration
- Fully configrable
- SMS alert messaging
- Compatible with DSE8700 Series

KEY BENEFITS

- RS232 & RS485 can be used at the same time
- DSENet connection for system expansion
- PLC functionality
- Auto voltage sensing
- Five step dummy load support
- Five step load shedding support
- High number of inputs and outputs

- Worldwide language support
- Configuration Suite PC software
- Direct USB connection to PC
- Ethernet monitoring
- USB host
- Data logging & trending

EXPANSION DEVICES

- DSE2131 Ratiometric Input **Expansion Module**
- DSE2133 RTD/Thermocouple
- Input Expansion Module DSE2152 Analogue Output
- **Expansion Module** DSE2548 LED Expansion Module
- DSE2130 Input Expansion Module
- DSE2157 Output Expansion Module
- DSE124 CAN/MSC Extender

PART NO'S

053-069

057-115 057-119

055-086

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 460 mA at 12 V. 245 mA at 24 V

MAXIMUM STANDBY CURRENT

CHARGE FAIL/EXCITATION RANGE

0 V to 35 \

OUTPUTS

OUTPUT A (FUEL)
15 A DC at supply voltage

OUTPUT B (CRANK)

OUTPUTS C & D

8 A AC at 250 V AC (Volt free)

AUXILIARY OUTPUTS E,F,G

GENERATOR & BUS VOLTAGE RANGE

15 V to 333 V AC (L-N)

FREQUENCY RANGE

3.5 Hz to 75 Hz

MAGNETIC PICK-UP

VOLTAGE RANGE +/- 0.5 V to 70 V

FREQUENCY RANGE

10,000 Hz (max)

BUILT-IN GOVERNOR CONTROL

MINIMUM LOAD IMPEDANCE

Fully isolated

GAIN VOLTAGE

0 V to 10 V DC Fully isolated

OFFSET VOLTAGE +/- 10 V DC Fully isolated

BUILT-IN AVR CONTROL MINIMUM LOAD IMPEDANCE

Fully isolated

GAIN VOLTAGE 0 V to 10 V DC

Fully isolated

OFFSET VOLTAGE

+/- 10 V DC Fully isolated

DIMENSIONS

OVERALL 240 mm x 172 mm x 57 mm

9.4" x 6.8" x 2.2

PANEL CUTOUT

220 mm x 160 mm 8.7" x 6.3"

MAXIMUM PANEL THICKNESS

0.3"

STORAGE TEMPERATURE RANGE -40 °C to +85 °C

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