DSEGenset®

DSE8920
7" Colour Load Share & Synchronising Control Module

Module can be configured to function as a DSE**8910** Auto Start Synchronising and Load Sharing Control Module.

KEY FEATURES

- 7" optically bonded, sunlight readable colour TFT display (800 x 480)
- Comprehensive synchronising & load sharing capabilities
- Built in governor, AVR & CAN control
- Base load (kW export) control
- Positive & negative kVAr export control
- Mains (Utility) decoupling protection
- Mains (Utility) failure detection
- Mains (Utility) power (kW, kV Ar, kV A & pf) monitoring
- RoCoF and vector shift protection
- Mains (utility) kW export protection
- Peak lopping & shaving functionality
- Multiple display languages
- Five key menu navigation
- LCD alarm indication
- DSENet® expansion compatibility
- Data logging & trending facility
- Drag & drop advanced PLC editor
- Protections disable feature
- Fully configurable via PC using USB, RS485 & Ethernet communication
- Front panel configuration with PIN protection
- Power save mode
- 3 phase mains (utility) & generator sensing and protection
- Generator current and power monitoring (kW, kvar, kVA, pf)
- kW and kvar overload alarms
- Reverse power alarms
- Over current protection
- Unbalanced load protection
- Independent earth fault protection
- Breaker control via fascia buttons
- Fuel and start outputs configurable when using CAN
- 8 configurable DC outputs
- 2 configurable volt-free relay outputs
- 4 configurable analogue/digital inputs
- Built in sensors to support 0 V to 10 V & 4 mA to 20 mA
- 12 configurable digital inputs
- Configurable 5 stage dummy load and load shedding outputs
- CAN, MPU and alternator frequency speed sensing in one variant
- Real time clock
- Manual and automatic fuel pump control
- Engine run-time scheduler
- Fuel usage monitor and low fuel level alarms
- Simultaneous use of all communication ports
- Remote SCADA monitoring via various DSE software applications
- MODBUS RTU & TCP IP support with configurable MODBUS pages
- 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including tier 4F, stage 5 engine support
- Uses DSE Configuration Suite PC Software for simplified configuration

KEY BENEFITS

- Can be configured for use as a DSE8910 Auto Start Module
- Real-time clock provides accurate event logging
- Ethernet communication, provides built in advanced remote monitoring.
- Increased input and output expansion capability via DSENet®
- Licence-free PC software
- IP65 rating (with supplied gasket) offers increased resistance to water ingress
- Advanced internal PLC editor allows user configurable functions to meet complex application requirements.

EXPANSION DEVICES

- DSE124 CAN/MSC Extender
- DSE2130 Input Expansion Module
- DSE2131 Ratio-metric Input Expansion Module
- DSE2133 RTD & Thermo-couple Expansion Module
- DSE2152 Ratio-metric Output Expansion Module
- DSE2157 Output Expansion Module
- DSE2548 LED Expansion

RELATED MATERIALS

TITLE	PART NO.
DSE8920 Installation Instructions	053-248
DSE8920 Operator Manual	057-311
DSE8920 PC Configuration Suite Manual	057-303
DSE8910 Data Sheet	055-264

DSE8920

7" Colour Load Share & Synchronising Control Module

The DSE8920 is a 7" full colour, optically bonded synchronising Auto Mains (Utility) Failure Control Module suitable for paralleling single gensets (diesel or gas) with a mains (utility) supply. The controller can be configured for use as a DSE8910 Auto Start Control Module. When converted for use as a DSE8910 the unit provides generator load share functionality.

Designed to synchronise a single genset with a single mains (utility) supply the DSE8920 will automatically control the change over from mains (utility) to generator supply or run the generator in synchronisation with the mains (utility), to provide no break, peak lopping and peak shaving power solutions.

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

Comprehensive communications are also available via RS485 and Ethernet for remote PC control and monitoring and integration into building management systems

The event log will record 250 events to facilitate easy maintenance, and an extensive number of fixed and flexible monitoring, metering and protection features are included.

Designed to offer increased built in support for active sensors for 0 V to 10 V & 4 mA to 20 mA. Comprehensive communication and system expansion options are available.

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 DSE8920 is ideal for a wide variety of demanding load share applications.

KEY LOAD SHARE FEATURES:
- Peak lopping/sharing (with appropriate DSE mains (utility) controller
- Manual voltage/frequency adjustment
- RoCoF and vector shift protection
- Mains (Utility) decoupling
- Mains (Utility) decoupling test mode
- Direct governor and AVR control
- Volts and frequency matching
- kW and kvar load sharing

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