

DSE8610 MKII

SYNCHRONISING & LOAD SHARING AUTO START CONTROL MODULE



KEY FEATURES

- Comprehensive synchronising & loadsharing capabilities
- Built in governor and AVR control
- Base load (kW export) control
- Positive & negative kVAr export control
- Mains (Utility) decoupling protection
- 4-Line back-lit LCD text display
- Multiple Display Languages
- Five key menu navigation
- LCD alarm indication
- Heated display option available
- Customisable power-up text and images
- DSENet expansion compatibility
- Data logging & trending facility
- Advanced PLC editor
- Protections disable feature
- Fully configurable via PC using USB, RS232, RS485 & Ethernet communication
- Front panel configuration with PIN protection
- Power save mode
- 3 phase 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 support with configurable MODBUS pages for integration into building management systems (BMS)
- Advanced SMS messaging (additional external modem required)
- Start & stop capability via SMS messaging
- 3 configurable maintenance alarms
- Compatible with a wide range of CAN engines, including tier 4 engine support
- Uses DSE Configuration Suite PC Software for simplified configuration
- Power modes for when in parallel with the mains

EXPANSION DEVICES

- DSE124 CAN/MSB 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

- Redundant MSC communication wired to CAN ports
- True manual breaker control when in CAN mode
- Water in fuel digital input
- Fuel tank bund alarm digital input
- Separate ramp up and ramp down rates configurable via PLC
- Configurable CAN message timeouts
- In-built SNMP
- Configurable CAN transmit & receive
- Battery chargers on DSENet®
- Persistent governor & AVR outputs
- Filter generator voltage display
- Inhibit remote start
- Power & reactive power control
- Remote start on load demand
- Configurable engine icons
- Alternative load demand schemes
- Variable speed generator support
- CAN AVR support

SPECIFICATIONS

DC SUPPLY
CONTINUOUS VOLTAGE RATING
5 V to 35 V Continuous

CRANKING DROPOUTS

Able to survive 0 V for 100 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
530 mA at 12 V, 280 mA at 24 V

MAXIMUM STANDBY CURRENT
320 mA at 12 V, 160 mA at 24 V

CHARGE FAIL/EXCITATION RANGE
0 V to 35 V

GENERATOR & BUS

VOLTAGE RANGE
15 V to 415 V AC (Ph to N)
26 V to 719 V AC (Ph to Ph)

FREQUENCY RANGE
3.5 Hz to 75 Hz

MAGNETIC PICKUP
VOLTAGE RANGE
+/- 0.5 V to 70 V

FREQUENCY RANGE
10,000 Hz (max)

INPUTS

DIGITAL INPUTS A TO L
Negative switching

ANALOGUE INPUTS A TO D

Configurable as:
Negative switching digital input
0 V to 10 V sensor
4 mA to 20 mA sensor
0 Ω to 480 Ω sensor

OUTPUTS

OUTPUT A & B (FUEL & START)
15 A DC at supply voltage

OUTPUTS C & D
8 A AC at 250 V AC (Volt-free)

AUXILIARY OUTPUTS E TO L
2 A DC at supply voltage

BUILT IN AVR GOVERNOR CONTROL

MINIMUM LOAD IMPEDANCE
500 Ω
Fully isolated

GAIN VOLTAGE
0 V to 10 V DC
Fully isolated

OFFSET VOLTAGE
0 V to 10 V DC
Fully isolated

DIMENSIONS

OVERALL
245 mm x 184 mm x 51 mm
9.6" x 7.2" x 2.0"

PANEL CUT-OUT
220 mm x 160 mm
8.7" x 6.3"

MAXIMUM PANEL THICKNESS
8 mm
0.3"

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C
-40 °F to +185 °F

OPERATING TEMPERATURE RANGE

-30 °C to +70 °C
-40 °F to +185 °F

HEATED DISPLAY VARIANT

-40 °C to +70 °C
-40 °F to +158 °F

RELATED MATERIALS

TITLE

DSE8610 MKII Installation Instructions
DSE8610 MKII Operator Manual
DSE8610 MKII PC Configuration Suite Manual
DSE8610 MKII Data Sheet
DSE8610 Data Sheet

PART NO.

053-182
057-254
057-238
055-204
055-083

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