DSECONTROL® IONITORING **FELLIGENCE**.



CATION

Able to survive 0V for 50mS, providing the supply was at least 10V before dropout and

DC SUPPLY 8 V to 35 V continuous

CRANKING DROPOUTS

supply recovers to 5V **AUXILIARY OUTPUTS 1-3**

5A DC at supply voltage

STANDBY CURRENT

230mA at 12V, 120mA at 24V SLEEP MODE CURRENT 70mA at 12V, 45mA at 24V

MODULE DIMENSIONS (WxH)

MAXIMUM PANEL THICKNESS

(when in auto

240mm x 172mm

220mm x 160mm 87" x 6.3"

PANEL CUT-OUT (WxH)

9.4" x 6.8"

8mm 0.3

AUXILIARY OUTPUTS 4 & 5 (DSE5320 only) 8 A AC rated volt-free relay MAXIMUM OPERATING CURRENT 400mA at 12V, 200mA at 24V

DSE5310 & DSE5320

AUTO START & AUTO MAINS FAILURE CONTROL MODULES (ELECTRONIC ENGINE ENABLED)

DSE5310



The DSE5310 is an Automatic and gas generating sets that include

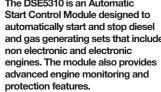
The module has the ability to monitor under speed, over speed, charge failure, emergency stop, low oil pressure, high engine temperature, fail to start, fail to stop, under/over generator volts, over current, under/over generator frequency, low/high DC battery volts, low fuel alarm and loss of the speed sensing signal. The module displays fault conditions on the LCD display and via the LED indicators on the front.

The DSE5320 is an Automatic Mains (utility) Failure Control Module and includes all the features of the DSE5310 plus the ability to monitor a mains (utility) supply. Upon detection of a mains (utility) failure the module automatically starts the generating set. Once the mains (utility) power has been restored the module instructs the generating set to stop.

Both modules include RS232 or **RS485** communication capabilities for linking to a PC, sending SMS messages and interfacing with new

DSE5320





and existing building management systems.

FEATURES

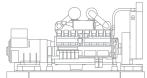
- Automatic start
- Automatic load transfer • Automatic mains (utility) failure
- detection (DSE5320 only)
- Electronic engine connection
- RS232 or RS485 remote
- communications (to be specified on ordering)
- Modbus RTU
- Analogue inputs
- Audible alarm indication
- Back-lit character & 4-line text LCD display
- Configurable alarms & timers Configurable auxiliary inputs
- Digital inputs
- •
- Emergency stop functions Engine history event log
- Engine exercise mode
- Engine protection
- Front panel mounting •
- Front panel programming
- Full engine diagnostics
- Generator operating status warning .
- LCD alarm indication
- LED alarm indication
- Manual start ٠
- Multiple language options
- PC configurable
- PIN protected programming
- Power save mode
- Remote monitoring
- SMS messaging

BENEFITS

- Full integration into new & existing • building management systems
- instrumentation without the need for additional senders (Electronic engines only)
- the requirement for service equipment
- monitoring using comprehensive DSE PC software
- engine starter motors
- configuration
- engineers to notify specific engine problems (GSM Modem and SIM Card required)
- layout

OPERATION

The modules are operated using the front STOP, AUTO and MANUAL push buttons. The DSE5320 also includes a TEST button. An additional push button allows the user to scroll through the LCD display.



ELECTRONIC ENGINE CAPABILITY

REQUEST A QUOTE parts@genpowerusa.com

SHOP ONLINE www.genpowerusa.com

- Full engine protection &
- In-built engine diagnostics removes
- License free PC software
- · Remote module control and
- Modules improve the life cycle of
- On-site and remote module
- Modules send SMS messages to
- User-friendly set-up and button

NMENTAL TESTING

ELECTRO MAGNETIC CAPABILITY

BS EN 61000-6-2 EMC Generic Emission 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 60068-2-2 Test Ab to +70°C 60067-2-2 Hot Test Ab to -30°C 60068-2-1 Cold

VIBRATION

BS EN 60068-2-6 Ten sweeps in each of three major axes 5Hz to 8Hz @ +/-7.5mm, 8Hz to 500Hz @ 2gn

HUMIDITY

BS 2011 part 2.1 60068-2-30 Test Cb Ob Cyclic 93% RH @ 40°C for 48 hours

SHOCK

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

CONFIGURATION

The modules can be configured using the front panel buttons or the DSE810 interface and PC software. COMMUNICATIONS

The DSE5310 & DSE5320 have a number of different communication capabilities.

SMS Messaging

When the module detects an alarm condition, it has the ability to send an SMS message to a dedicated mobile number, notifying an engineer of the problem. (GSM Modem and SIM Card required)

Remote Communications

When the module detects an alarm condition, it dials out using suitable modem, to a PC notifying the user of the exact alarm condition.

Building Management

The module has been designed to be integrated into new and existing building management systems.

PC Software

The module has the ability to be configured and monitored from a remote PC, using the DSE810 interface.

EVENT LOG

The module includes a comprehensive event log that shows the 30 most recent alarm conditions and the date and time that they occurred. This function assists the user when fault finding and maintaining a generating set.

INSTRUMENTATION

The modules provide advanced metering facilities, displaying the information on the LCD display. The information can be accessed using the display scroll push buttons located next to the LCD display.

5310	5320
Generator Instruments	Generator Instruments
Volts, Hz, Amps, kW, kVA, Pf,Kwh, kVAr,	Volts, Hz, Amps, kW, kVA, Pf,Kwh, kVAr,
kVArh, KVAh	kVArh, KVAh
Engine Instruments	Engine Instruments
RPM, Oil Pressure, Coolant Temperature,	RPM, Oil Pressure, Coolant Temperature,
Hours Run, Charging Voltage, Battery Volts.	Hours Run, Charging Voltage, Battery Volts.
Electronic Engines	Electronic Engines
Enhanced Instrumentation and Engine ECU	Enhanced instrumentation and Engine ECU
diagnostics via electronic engine interface.	diagnostics via electronic engine interface.
	Mains/Utility Instruments Volts, Frequency, Amps (optional when CT's are fitted load side of the line)
RELATED MATERIALS TITLE DSE5310 Installation Instructions	PART NO'S 053-012

DSE5320 Installation Instructions 053-014 057-013 DSE5310 Manual DSE5320 Manual 057-014 DSE157 Data Sheet 055-045 DSE545 & DSE548 Data Sheet 055-049 DSE130 Data Sheet 055-047 057-006 52/53xx Software Manual CAN & DSE wiring guide 057-004

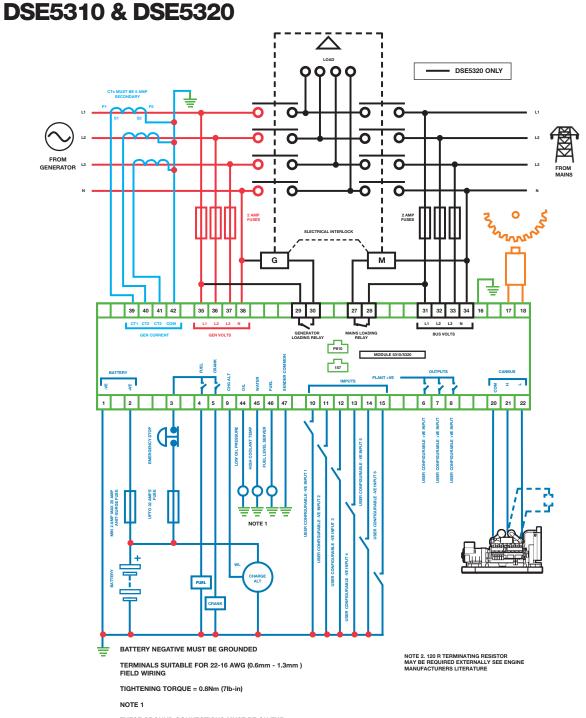
EXPANSION MODULE

COMPATIBILITY DSE157 Relay Input Expansion Module DSE545 & DSE 548 Remote Annunciation Expansion Module DSE130 Input Expansion Module

ELECTRONIC ENGINE COMPATABILITY

- Cummins
- Deutz
- John Deere
- MTU
- Perkins
- Scania
- Volvo Generic
- Plus additional manufacturers





THESE GROUND CONNECTIONS MUST BE ON THE ENGINE BLOCK, AND MUST BE TO THE SENDER BODIES. THE GROUND WIRE TO TERMINAL 47 MUST NOT BE USED TO PROVIDE A GROUND CONNECTION TO ANY OTHER DEVICE

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