

DSE**4410/20** AUTO START & AUTO MAINS FAILURE CONTROL MODULES

FEATURES



The DSE4410 is an Auto Start Control Module and the DSE4420 is an Auto Mains (Utility) Failure Control Module with 3 phase sensing, suitable for a wide variety of single, diesel or gas, gen-set applications.

Monitoring, speed, frequency, voltage, oil pressure, coolant temperature and fuel level, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LED. Both modules offer electronic (CAN) and non-electronic (magnetic pickup/alternator sensing) engine versions and offer a number of flexible inputs, outputs and engine protections so the system can be easily adapted to suit a wide range of application demands.

The modules can be easily configured using the DSE Configuration Suite PC software. Selected front panel editing is also available.



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

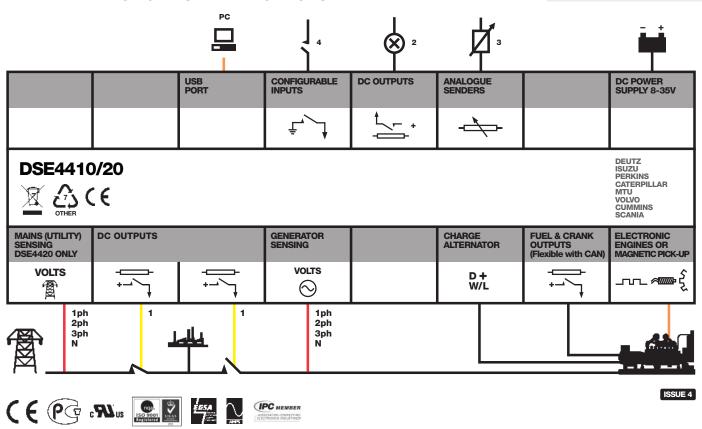
SHOCK

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

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



CALL US TODAY 1-888-POWER-58 SHOP ONLINE www.genpowerusa.com



DSE**4410/20** AUTO START & AUTO MAINS FAILURE CONTROL MODULES

FEATURES

DSE**4420**

DSE4410



KEY FEATURES

- CAN and magnetic pick-up/Alt. sensing versions (specify on ordering)
- 3 phase generator monitoring
- Four digital inputs/three analogue inputs
- Six outputs (all six configurable on CANbus version, four configurable on magnetic pick-up version)
- Three phase sensing
- Event log (5)
- 50/60 Hz calibration setting
- Configurable timers
- Automatic shutdown or warning when fault conditions are detected
- Overspeed protection

RELATED MATERIALS

CALL US TODAY

1-888-POWER-58

· Manual and remote start

Engine pre-heat

- Protected Solid State Outputs (PSS)
- Advanced metering capability
- Front panel/PC programming
- Hours counter
- LED indicators
- Back-lit character icon LCD display

KEY BENEFITS

- Automatically transfers between mains (utility) and generator power (DSE4420 only)
- Hours counter provides accurate information for monitoring and
- maintenance periodsUser-friendly set-up and button
- layout
- Multiple engine parameters

- are monitored simultaneously
- Module can be configured to suit individual applications
- Compatible with a wide range of CAN engines
- IP65 rating offers advanced resistance to water ingress when the gasket is fitted
- License-free PC software.
- ware. FREQUENCY RANGE 3.5 Hz to 75 Hz DIMENSIONS OVERALL

OVERALL 180 mm x 116 mm x 42 mm 7.1" x 4.6" x 1.7"

PANEL CUT-OUT 154 mm x 98 mm 6" x 3.9"

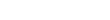
MAXIMUM PANEL THICKNESS 8 mm (0.3")

TITLEPART NO'SDSE4410 Installation Instructions053-078DSE4420 Installation Instructions053-079DSE4400 Quick Start Guide057-103DSE4400 Operator Manual057-111DSE4400 Configuration Suite PC Manual057-093

DEEP SEA ELECTRONICS PLC UK

DEEP SEA ELECTRONICS INC USA

Registered in England & Wales No.01319649 VAT No.316923457 055-068/08/10 (4) US



Deep Sea Electronics Plc maintains a policy of continuous development and reserves the right to change

the details shown on this data sheet without prior notice. The contents are intended for guidance only.

REQUEST A QUOTE parts@genpowerusa.com



SPECIFICATION

cranking.

0 V to 35 V

MAGNETIC PICK UP VOLTAGE RANGE +/- 0.5 V to 70 V

FREQUENCY RANGE 10,000 Hz (max) OUTPUTS OUTPUT A (FUEL)

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)

2 Amp DC at supply voltage OUTPUT B (START) 2 Amp DC at supply voltage AUXILIARY OUTPUTS C,D,E,F 2 Amp DC at supply voltage MAINS (UTILITY) DSE74420 ONLY

CONTINUOUS VOLTAGE RATING 8 V to 35 V Continuous

Able to survive 0 V for 50 mS, providing supply was at least 10V before dropout and supply recovers to 5 V. This is achieved

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

CHARGE FAIL/EXCITATION RANGE

without the need for internal batteries. LEDs and backlight will not be maintained during

CRANKING DROPOUTS

Deep Sea Electronics 4420