



)SE**E400 ENGINE CONTROLLER**



KEY FEATURES

- Sensor alarm levels adjustable in front panel editor
- PLC hour timer
- Maintenance alarms (10)
- Auto run inhibit feature
- Configurable CAN
- Built-in governor control
- Automatic speed control
- Fill, empty, maintain fill and maintain empty control
- Manual speed control via push buttons, digital input or analogue input
- · Automatic speed ramping
- · Flexible automatic start control
- Clutch control
- LCD text display
- Multiple display languages
- Two-key menu navigation
- · Front panel editing with PIN protection
- . Customisable status screens
- · Customisable multi instrumentation screens
- Configurable digital inputs (4)
- Configurable analogue inputs (7)

- Configurable DC outputs (2)
- Configurable PWM/PWMi outputs (2)
- Configurable analogue output (1)
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time engine scheduler
- Configurable event log (250)
- CAN engine support
- CAN, magnetic pick-up or tachometer speed sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- "Protections disabled" feature
- LCD alarm indication
- Low power mode
- USB connectivity
- Backed-up real time clock
- Fully configurable via DSE Configuration Suite PC software
- Configurable display languages
- Remote SCADA monitoring via DSE Configuration Suite PC software
- Modbus RTU support by configurable RS485 port

SPECIFICATIONS

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.

MAXIMUM OPERATING CURRENT

CONTINUOUS VOTLAGE RATING

326 mA at 12 V. 164 mA at 24 V

MAXIMUM STANDBY CURRENT 119 mA at 12 V, 60 mA at 24 V

MAXIMUM OFF MODE CURRENT 76 mA at 12 V. 38 mA at 24 V

CHARGE FAIL/EXCITATION RANGE

DIGITAL INPUTS A to D

Configurable as Positive switching Negative switching

ANALOGUE INPUT A to G

Configurable as Negative switching digital input 0 V to 10 V 4 mA to 20 mA

DC OUTPUT A (FUEL) & B (START)

10 A DC for 10 seconds 5 A DC continuous at supply voltage

DC OUTPUTS C & D

2 A DC at supply voltage PWMi OUTPUTS E & F

4 A at supply voltage 20 Hz to 250 Hz

PHI SE PICK-HP

VOLTAGE RANGE 0.5 V to 60 V RMS Fully isolated

FREQUENCY RANGE

5 Hz to 10,000 Hz

GOVERNOR OUTPUT Fully Isolated

VOLTAGE OUTPUT

0 V to 10 V range 1000 Ω minimum load impedance

CURRENT OUTPUT

0 to 20 mA range 500 Ω maximum load impedance

DIMENSIONS

OVERALL

189 mm x 125 mm x 54 mm 7.5" x 4.9" x 2.1"

PANEL CUTOUT

148 mm x 112 mm 5.8" x 4.4"

OPERATING TEMPERATURE RANGE

-30 °C to +80 °C -40 °C to +80 °C with heated display option

STORAGE TEMPERATURE RANGE

-40 °C to +85 °C

RELATED MATERIALS

TITI F

DSEE400 Installation Instructions DSEE400 Operator Manual DSEE400 PC Configuration Suite Manual

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

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KEY BENEFITS

event logging

engine performance

monitoring systems

Licence-free PC software

IP67 rating offers increased

resistance to water ingress

layout for ease of use

CAN engines

empty control

PART NO.

053-180

057-252

057-251

User friendly set-up and button

Compatible with a wide range of

Fill, empty, maintain fill and maintain

132 x 64 pixel ratio display for clarity

Real-time clock provides accurate

Set maintenance periods can be

configured to maintain optimum

Can be integrated into remote

· Uses DSE Configuration Suite PC

Software for simplified configuration





)SE**E400** ENGINE CONTROLLER

The DSEE400 is an easy to use engine controller designed to provide flexible control with built in monitoring and protection.

The DSEE400 is compatible with both electronic and mechanical diesel engines. It is fully configurable for a wide range of applications such as engine driven pumps and compressors.

All of the engine control functions, including the engine start, speed and clutch control can be achieved both automatically & manually.

The monitoring and configuration of the system variables allows the DSEE400 to start and stop the engine and increase and decrease engine speed as the output demand requires.

On board event, data logging and trending makes it possible to determine preventative maintenance and improved performance criteria for the machine.

The DSE Configuration Suite PC Software is used to easily make adjustments to the operating parameters, sequences, timers and alarms. Reducing valuable development and commissioning time

ENVIRONMENTAL TESTING STANDARDS

ELECTRO MAGNETIC COMPATIBILITY

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 oC BS EN 60068-2-2 Bb/Be Dry Heat +70 oC

VIBRATION

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

HUMIDITY

BS EN 60068-2-30 Db Damp Heat Cyclic 20/55 oC at 95% RH BS EN 60068-2-78 Cab Damp Heat Static 40 oC at 93% RH 48 Hours

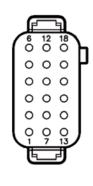
SHOCK

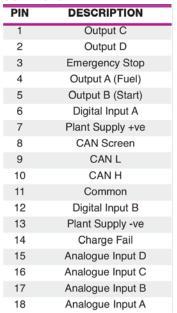
BS EN 60068-2-27 Three shocks in each of three major axes

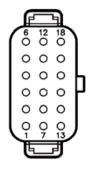
DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS EN 60529

CONNECTOR A







CONNECTOR C

PIN	DESCRIPTION
1	Governor B
2	RS485 A
3	RS485 Screen
4	Common
5	Analogue Input E
6	Analogue Input F
7	Governor A
8	RS485 B
9	MPU +
10	MPU -
11	MPU Screen
12	Flexible Sender G
13	PWMi Supply -ve
14	PWMi Supply +ve
15	PWMi Output F
16	PWMi Output E
17	Digital Input D
18	Digital Input C

RELATED PARTS

TITLE

Deutsch connector A (DT16-18SA-K004), 18 way complete with pins Deutsch connector C (DT16-18SC-K004), 18 way complete with pins Set of 2 harnesses, A & C connectors, pre-wired, 1.2 m, cables marked.

PART NO.

007-850 007-851 007-852







