DSEControl®

DSE**E100**
ENGINE CONTROLLER

KEY FEATURES
- Largest back-lit icon display in its class
- Real time clock provides accurate event logging
- Fully configurable via the fascia or PC using USB communication
- Extremely efficient power save mode
- Fuel and start outputs
- 4 configurable DC outputs
- 3 configurable analogue/digital inputs
- 4 configurable digital inputs
- 3 engine maintainance alarms
- Engine speed protection
- Engine hours counter
- Engine pre-heat
- Engine run-time scheduler
- Battery voltage monitoring
- Start on low battery voltage
- Configurable remote start input
- Comprehensive warning, controlled shutdown or shutdown protection upon fault condition
- LCD alarm indication
- Event log (50)

KEY BENEFITS
- Ultimate size to feature ratio
- Hours counter provides accurate information for monitoring and maintenance periods
- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored simultaneously which are clearly displayed on the largest back-lit icon display in its class
- The module can be configured to suit a wide range of applications
- Uses DSE Configuration Suite PC Software for simplified configuration
- Licence-free PC software
- IP65 rating (with optional gasket) offers increased resistance to water ingress

RELATED MATERIALS

TITLE	PART NO.
DSEE100 Installation Instructions	053-225
DSEE100 Operator Manual	057-268
DSEE100 PC Configuration Suite Manual	057-267

SPECIFICATIONS

DC SUPPLY

CONTINUOUS VOLTAGE RATING
8 V to 35 V Continuous

CRANKING DROPOUTS
Able to survive 0 V for 50 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
85 mA at 12 V, 96 mA at 24 V

MAXIMUM STANDBY CURRENT
51 mA at 12 V, 47 mA at 24 V

MAXIMUM SLEEP CURRENT
35 mA at 12 V, 32 mA at 24 V

MAXIMUM DEEP SLEEP CURRENT
<10 µA at 12 V, <10 µA at 24 V

CHARGEFAIL / EXCITATION RANGE
0 V to 35 V

INPUTS

DIGITAL INPUTS A to D
Negative switching

ANALOGUE INPUT A to C
Configurable as:
Negative switching digital input
Resistive

OUTPUTS

OUTPUT A (FUEL)
10 A short term, 5 A continuous, at supply voltage

OUTPUT B (START)
10 A short term, 5 A continuous, at supply voltage

AUXILIARY OUTPUTS C, D, E & F
2 A DC at supply voltage

PULSE PICK UP

VOLTAGE RANGE
+/- 0.5 V to 70 V

FREQUENCY RANGE
5 Hz to 10,000 Hz

DIMENSIONS

OVERALL
140 mm x 113 mm x 43 mm
5.5” x 4.4” x 1.7”

PANEL CUT-OUT
118 mm x 92 mm
4.6” x 3.6”

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
-22 °F to +158 °F

OPTIONAL PARTS

PART	PART NUMBER
IP65 Gasket	020-282

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DSE**E100**
ENGINE CONTROLLER

The DSEE100 is an easy to use engine controller designed to provide flexible control with built in monitoring and protection.

The DSEE100 is fully configurable for a wide range of applications such as engine driven pumps and compressors.

The engine control functions, including the engine start and load control can be achieved both automatically & manually.

The monitoring and configuration of the system variables allows the DSEE100 to start and stop the engine.

The built in run time scheduler allows for standalone running. Together with the on board event log, fault finding is made easy.

The DSE Configuration Suite PC Software is used to easily make adjustments to the operating parameters of the controller, reducing valuable development and commissioning time. This software is available free of charge from the DSE Website.

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
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 at +/-7.5 mm
8 Hz to 500 Hz at 2 gn

HUMIDITY
BS EN 60068-2-30
Db Damp Heat Cyclic 20/55 °C at 95% RH 48 Hours
BS EN 60068-2-78
Cab Damp Heat Static 40 °C at 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 optional sealing gasket.

COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF ENGINE APPLICATIONS