

DSE402 MKII

WATERPROOF MANUAL/AUTO START CONTROL MODULE



KEY FEATURES

- Key start
- Low oil pressure protection
- High engine temperature protection
- Auxiliary shutdown
- PC configurable via DSE813 interface and DSE Configuration Suite PC Software
- Automatic engine pre-heat
- Overspeed protection
- Configurable lamp test at power up

KEY BENEFITS

- IP66 rating makes this module ideal for outdoor use
- Potted electronics prevents vibration and water damage
- Licence-free PC Software
- User friendly set up and fascia layout
- Uses DSE Configuration Suite PC Software for simple configuration

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.

MAXIMUM OPERATING CURRENT

120 mA at 12 V, 170 mA at 24 V

TYPICAL OPERATING CURRENT

60 mA at 12 V, 75 mA at 24 V
In stop position consumption is zero.

CHARGE/FAIL EXCITATION RANGE

0 V to 35 V

OUTPUTS

FUEL

15 A DC at supply voltage

START

15 A DC at supply voltage

PRE-HEAT

2 A DC at supply voltage

DIMENSIONS

OVERALL

157 mm x 111 mm x 60 mm
6.2" x 4.4" x 2.4"

PANEL CUT-OUT

132 mm x 84 mm

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

RELATED MATERIALS

TITLE

DSE402 MKII Installation Instructions
DSE402 MKII Operator Manual
DSE402 MKII Configuration Suite Lite Software Manual
DSE813 USB Communications Adaptor Data Sheet

PART NO.

053-087
057-137
057-138
055-100

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DSE402 MKII

WATERPROOF MANUAL/AUTO START CONTROL MODULE

The DSE402 MKII is a waterproof Manual/Automatic Start Control Module designed for genset and other applications. The module is designed to start and stop the engine via a manual waterproof key switch on the front panel or via a user configurable remote start input. It will provide a number of engine protections, automatically shutting down the engine on detection of a fault condition. Provision is also made for an overspeed shutdown from either the MPU or AC Hz (to be specified on ordering).

First-up shutdown alarm is indicated by a steady red LED.

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
5Hz to 8Hz @ +/-7.5mm, 8Hz to 500Hz @ 2gn

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
15gn in 11ms

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS EN 60529
IP66

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

