



SE**402 MKII** VATERPROOF MANUAL/AUTO START CONTROL MODULE

FEATURES



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 @ 2an

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

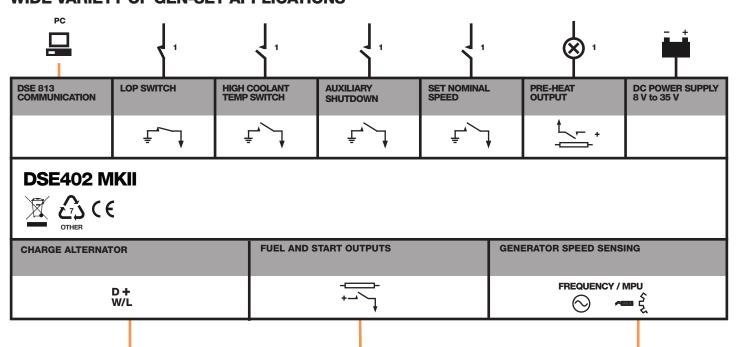
BS EN 60068-2-27

Three shocks in each of three major axes 15gn in 11mS

DEGREES OF PROTECTION PROVIDED BY ENCLOSURES

BS FN 60529

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



















DSE**402 MKII**WATERPROOF MANUAL/AUTO START CONTROL MODULE

FEATURES





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

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

SPECIFICATION

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

FUE

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'S

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

DEEP SEA ELECTRONICS PLC UK

Highfield House, Hunmanby Industrial Estate, Hunmanby YO14 0PH **TELEPHONE** +44 (0) 1723 890099 **FACSIMILE** +44 (0) 1723 893303 **EMAIL** sales@deepseaplc.com **WEBSITE** www.deepseaplc.com

3230 Williams Avenue, Rockford, IL 61101-2668 USA **TELEPHONE** +1 (815) 316 8706 **FACSIMILE** +1 (815) 316 8708 **EMAIL** sales@deepseausa.com **WEBSITE** www.deepseausa.com