

DSEATS[®] TRANSFERRING WITH EFFICIENCY



DSE332

AUTO TRANSFER SWITCH CONTROL

NEW RELEASE



The DSE332 is an Automatic Transfer Switch Controller for single set genset applications. The module will monitor the voltage and frequency of the incoming AC mains (utility) supply (supports many topologies) and in the event of a failure will issue a start command to the generator control system.

Once the generator is available and producing an output within limits, the DSE332 will control the transfer devices and switch the load from the mains (utility) to the generating set.

Once the mains (utility) supply returns to within limits, the module will command a return to the mains (utility) supply and shut down the generator after a cooling run. Various timing sequences are available to prevent nuisance starting on minor supply breaks.

The DSE332 includes a clear back-lit LCD 4-line text and icon display, showing system status and warnings. Red and Green LEDs also indicate operation status.

The module includes configurable digital inputs and outputs and is programmable by PC using the user-friendly DSE Configuration Suite Software. Limited programming is also available via the module's front panel.

FEATURES

- Supports many topologies
- Automatic switchover to generator
- Check sync feature
- Real-time clock
- Ten configurable inputs
- Five configurable outputs
- Event log showing most recent 10 events
- Configurable timers
- Automatic shutdown or warning when fault conditions are detected
- Protected Solid State Outputs (PSS)
- PC programming
- Front panel programming
- LED indicators
- Text and icon LCD display
- External mains (utility) or genset failure inputs
- Auto start inhibit
- Load inhibit
- Manual restore to mains (utility)

DSE160 SELF-SEEKING POWER SUPPLY



BENEFITS

- Provides automatic mains (utility) monitoring and controls switchover to generator supply
- Real-time clock provides accurate event information
- User-friendly set-up and button layout
- Will work with external synchroniser for seamless return to mains (utility)

OPERATION

System information is available instantly on the LCD display by using the scroll push buttons next to the screen.

SELF-SEEKING POWER SUPPLY

A self-seeking power supply is available for this product when a DC supply is required. This must be ordered separately.

Features include:

- 12 & 24V options
- LED indication
- Can be used as AC/DC power supply

Please see product information on the DSE160 Self-Seeking Power Supply.

SPECIFICATION

PLANT SUPPLY REQUIREMENTS

MINIMUM SUPPLY VOLTAGE

8V continuous, 5V for up to 1 minute

CRANKING DROPOUTS

Able to survive 0V for 50mS providing the supply was at least 10V before the dropout and recovers to 5 volts afterwards.

MAX OPERATING SUPPLY VOLTAGE

35V continuous

MAX SURVIVAL SUPPLY VOLTAGE

60V for 1 minute

MAX OPERATING SUPPLY CURRENT

T.B.A. mA at 12V, T.B.A. mA at 24V

MAX STANDBY CURRENT

T.B.A. mA at 12V, T.B.A. mA at 24V

GENERATOR AND MAINS (UTILITY) VOLTAGE INPUT

MEASUREMENT METHOD

True RMS up to 11th harmonic

AC SYSTEMS SUPPORTED

2 Phase, 3 Wire L1-L2
2 Phase, 3 Wire L1-L3
3 Phase, 3 Wire
3 Phase, 4 Wire
3 Phase, 4 Wire Delta
Single Phase, 2 Wire

PHASE TO NEUTRAL VOLTAGE RANGE

15V to 333VAC absolute maximum
110V to 277V nominal

PHASE TO PHASE VOLTAGE RANGE

25V to 576VAC

COMMON MODE OFFSET

100VAC from neutral to plant ground

RESOLUTION

1VAC phase to neutral
2VAC phase to phase

ACCURACY

±1% of full scale phase to neutral
(Excluding VT error)
±2% of full scale phase to phase
(Excluding VT error)

VT SCALING

Support for VT's with primary voltage up to 40kV

FREQUENCY

3.5Hz to 75Hz

FREQUENCY RESOLUTION

0.1Hz

FREQUENCY ACCURACY

±0.2Hz

PHASE LAG MEASUREMENT

With respect to mains voltage on L1 only

PHASE LAG RESOLUTION

3.6 degrees at 50Hz

PHASE LAG ACCURACY

±3.6 degrees at 50Hz

DIMENSIONS

OVERALL

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

PANEL CUT-OUT

154mm x 98mm
6" x 3.9"

MAXIMUM PANEL THICKNESS

8mm (0.3")

DEEP SEA ELECTRONICS PLC

Highfield House
Hunmanby Industrial Estate
Hunmanby, North Yorkshire
YO14 0PH England

TELEPHONE

+44 (0)1723 890099

FACSIMILE

+44 (0)1723 893303

EMAIL

sales@deepseapl.com

WEBSITE

www.deepseapl.com

Registered in England & Wales No.01319649

VAT No.316923457

DEEP SEA ELECTRONICS INC

3230 Williams Avenue
Rockford
IL 61101-2668 USA

TELEPHONE

+1 (815) 316 8706

FACSIMILE

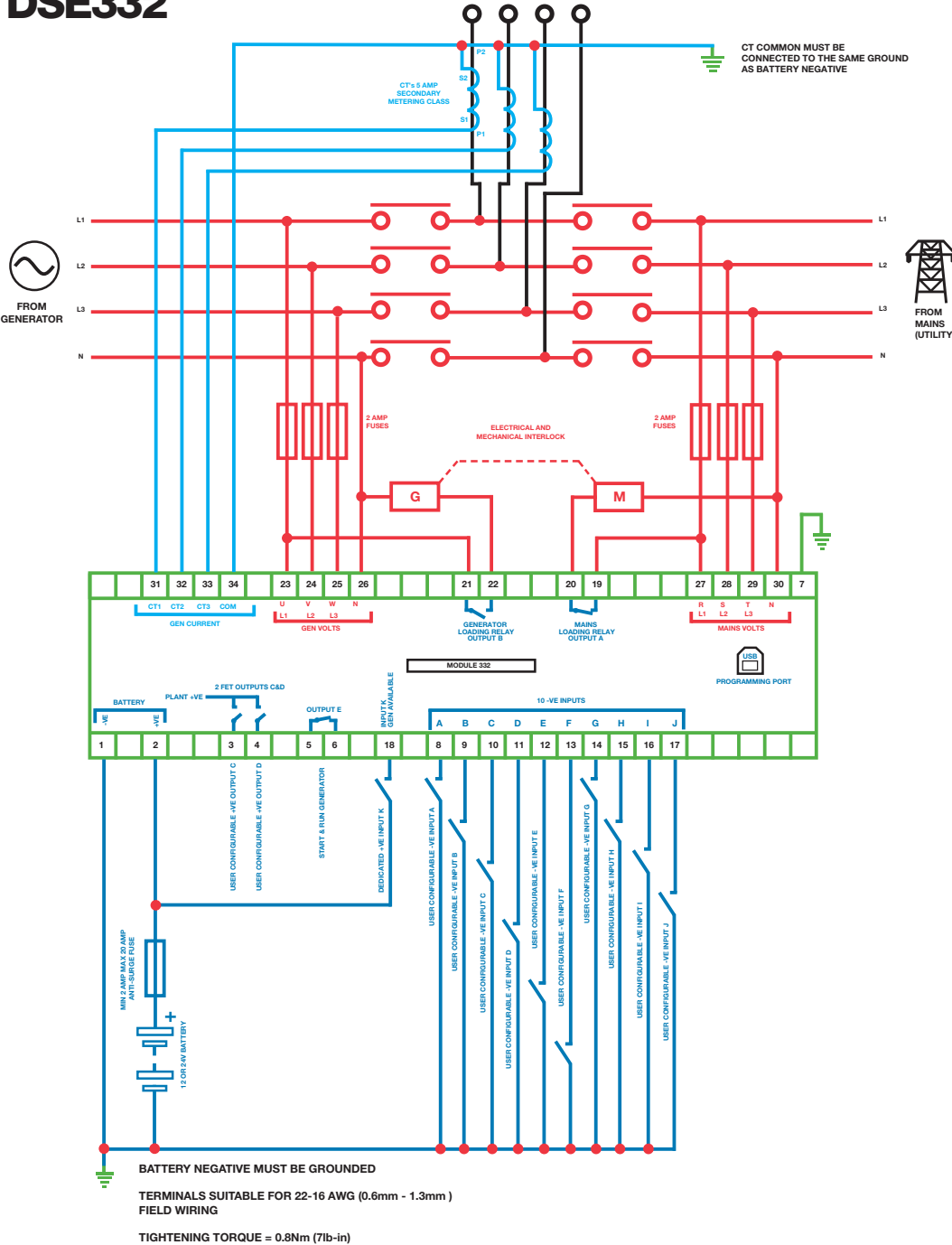
+1 (815) 316 8708

EMAIL

sales@deepseausa.com

WEBSITE

www.deepseausa.com

**DSE332****SPECIFICATION****LOAD CURRENT INPUT****PHASES MONITORED**

1 (depending upon topology setting)

MEASUREMENT METHOD

True RMS up to 11th harmonic

NOMINAL CT SECONDARY RATING

5A

MAXIMUM CONTINUOUS CURRENT

5A

OVERLOAD MEASUREMENT

15A for 100ms

BURDEN

0.5VA

COMMON MODE OFFSET

±2V peak - plant ground to CT common terminal

RESOLUTION

25mA

ACCURACY

±1% of Nominal (5A) excluding CT error

2 DEDICATED DIGITAL OUTPUT - GENERATOR AND MAINS (UTILITY)**CURRENT RATING**

8A AC resistive

VOLTAGE RATING

250V AC

2 CONFIGURABLE FET OUTPUTS**CURRENT RATING**

2A

VOLTAGE RATING

5V to 35V (able to withstand 60V for 1 minute)

PROTECTIONS

Over Current, Over Temperature, Built in Load dump feature

1 CONFIGURABLE RELAY OUTPUT**CURRENT RATING**

2A DC resistive

VOLTAGE RATING

35V DC resistive (UL rating 30V)

ENVIRONMENTAL TESTING STANDARDS**BS EN 61000-6-2**

EMC Generic Emission Standard for the Industrial Environment

BS EN 61000-6-4

EMC Generic Emission Standard for the Industrial Environment

RELATED MATERIALS

TITLE	PART NO'S
Operators Manual	057-097
Configuration Suite Manual	057-106
DSE160 Self-Seeking Power Supply Data Sheet	055-076

DEEP SEA ELECTRONICS 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.

This data sheet is printed on 90gsm 55 Silk, which is produced with 55% recycled fibre from both pre and post-consumer sources, together with 45% virgin ECF fibre.

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1-888-POWER-58

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parts@genpowerusa.com

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