

# DSEEXTRA<sup>®</sup> BATTERY CHARGERS AND EXPANSION MODULES.

## DSE157

OUTPUT RELAY EXPANSION MODULE



The DSE157 is an output relay expansion module for use with DSEControl<sup>®</sup> and DSEPower<sup>®</sup> Series Modules (excluding DSE51xx).

The DSE157 has been designed to extend a host modules output capabilities. The additional capabilities allow OEM's to meet increasingly complex industry specifications.

The module incorporates 'DIN' rail mountings and an interconnecting FCC 68 cable, allowing quick fixing into a panel. The module will work up to 50 meters from the host control module.

### FEATURES

- 8 configurable relay contacts
- Plug and socket host connection for quick and easy set-up
- Two DSE157 modules can be linked together to provide 16 additional outputs (DSE53xx and DSE55xx modules only).

### CONFIGURATION

The DSE157 is configured via the host control module and PC software.

Relay contacts can be configured to be either:

- de-energised - open on command
- energised - close on command

When using two DSE157's together, each module needs to be identified as either 'A' or 'B'. This can be done via the small selector switch on the circuit board.

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### SPECIFICATION

#### DC SUPPLY

The DSE157 is powered from the plant battery or from a low voltage supply between 8V and 35V continuous. It is able to survive 0V for 50ms during cranking, providing supply was at least 10V before dropout and supply recovers to 5V. This is achieved without the need for internal batteries.

#### MAXIMUM OPERATING CURRENT

120mA @ 12V, 70mA @ 24V

#### MAXIMUM STANDBY CURRENT

25mA @ 12V, 18mA @ 24V

#### AUXILIARY RELAY CONTACTS

5Amp DC rated voltage free

#### DIMENSIONS

DIN Rail mounted housing  
72mm x 160mm x 77mm  
2.8" x 6.3" x 3"

#### SELECTOR SWITCHES

Test - Operates all relays to test operation  
Unused - No function  
Enable Lamp Test - Relays will energise on receipt of a lamp test signal from host module  
A/B Select - Determines whether the 157 responds to signals for expansion A or B relays

#### INDICATIONS

Lit LED - Power On  
Flashing LED - Link lost (to controller)  
8 Relay active LED's

### ENVIRONMENTAL TESTING STANDARDS

#### ELECTRO MAGNETIC CAPABILITY (EMC)

BS EN 61000-6-4  
EMC Generic Emission Standard for the Industrial Environment  
BS EN 61000-6-2  
EMC Generic Immunity Standard for the Industrial Environment

#### ELECTRICAL SAFETY

BS EN 60950  
Safety of Information Technology Equipment including Electrical Business Equipment

#### TEMPERATURE

BS EN 60068-2-2  
Test Ab to 70°C  
Test Ab to -30°C

#### VIBRATION

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

#### HUMIDITY

BS EN 60068-2-30  
Test Db 95% RH @ 55°C for 12 hours

#### SHOCK

BS EN 60068-2-27  
Three shocks in each of three major axes  
15gn in 11ms

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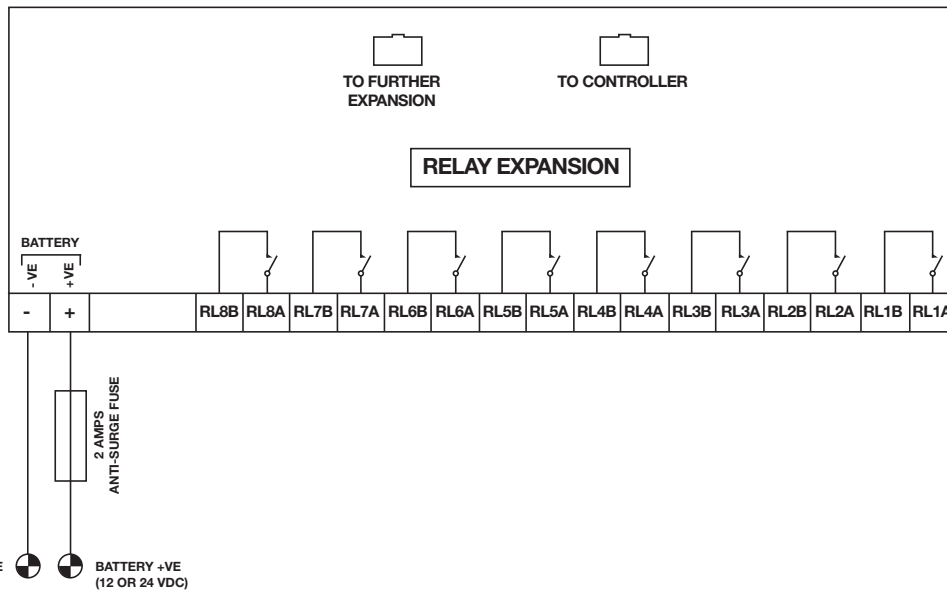
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# DSE157

**RELATED MATERIALS**

TITLE	PART NO'S
DSE5210 & 5220 data sheet	055-037
DSE5210 manual	053-023
DSE5220 manual	057-016
DSE5310 & 5320 data sheet	055-038
DSE5320 manual	057-014
DSE5310 manual	057-013
52/53xx Software Manual	057-006
55xx Software Manual	057-007

TITLE	PART NO'S
DSE5510 data sheet	055-039
DSE5510 manual	057-015
DSE5520 data sheet	055-040
DSE5520 manual	057-016
DSE5560 data sheet	055-041
DSE5560 manual	057-017

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