

# DSE2133

## RTD / THERMOCOUPLE INPUT EXPANSION MODULE

The DSE2133 Input Expansion Module is used in conjunction with supported DSENet controllers to provide 8 additional configurable inputs.

Up to four modules can be linked together to provide up to 32 additional inputs.

The inputs can be configured as RTD or Thermocouple inputs in the 'host controller'.

The DSE2133 has an ID switch to enable identification when multiple modules are used.

LED indication is provided for Power On or Link Lost.

### 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 0C  
BS EN 60068-2-2  
Bb/Be Dry Heat +70 0C

#### 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 0C  
@ 95% RH 48 Hours  
BS EN 60068-2-78  
Cab Damp Heat Static 40 0C  
@ 93% RH 48 Hours

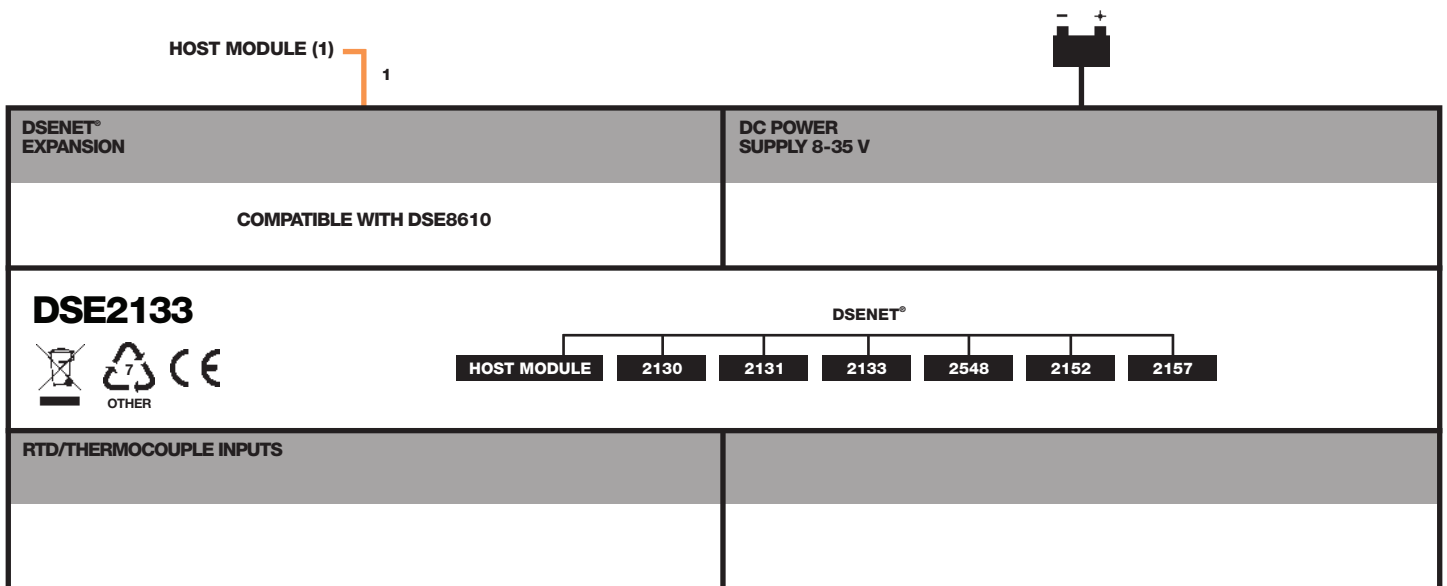
#### SHOCK

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  
IP21

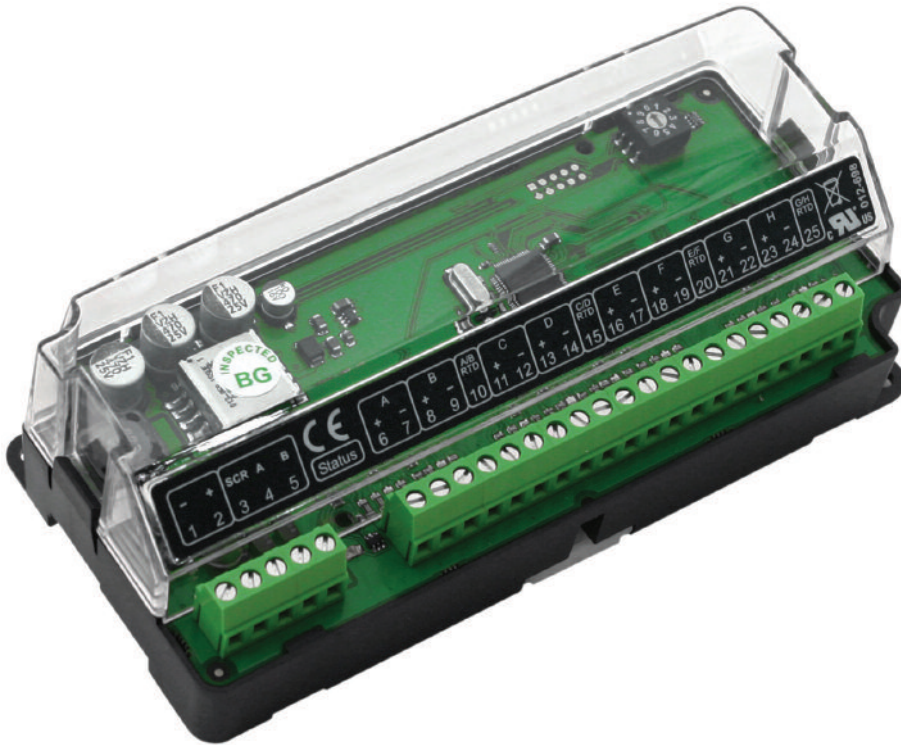
## COMPREHENSIVE FEATURE LIST TO SUIT A WIDE VARIETY OF GEN-SET APPLICATIONS



# DSE2133

## RTD / THERMOCOUPLE INPUT EXPANSION MODULE

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### KEY FEATURES

- Power on/Link lost LED
- 4 modules can be connected to 1 host controller at a time
- 8 inputs configurable for J-type/K-type thermocouple, PT 100, 3 wire RTD sensors
- Works up to 1.2 km (0.75 miles) from the host module
- Terminal strip connection for quick and easy set-up

### KEY BENEFIT

Ideal for applications where temperature monitoring is critical eg. engine temperature, enclosure temperature etc.

### SPECIFICATION

#### DC SUPPLY

8V to 35V 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 will not be maintained during cranking.

#### MAXIMUM OPERATING CURRENT

56 mA at 12 V, 20 mA at 24 V

#### INPUT

8 inputs configurable as RTD/Thermocouple

#### DIMENSIONS

##### OVERALL

165 mm x 76 mm x 49 mm  
6.5" x 3" x 1.9"

#### STORAGE TEMPERATURE RANGE

-40 °C to +85 °C

### RELATED MATERIALS

#### TITLE

DSE2133 Installation Instructions  
DSE2133 Operator Manual

#### PART NO'S

053-126  
057-140

### 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@deepseapl.com **WEBSITE** www.deepseapl.com

### DEEP SEA ELECTRONICS INC USA

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