

# DSE2131

## RATIOMETRIC INPUT EXPANSION MODULE

The DSE2131 Ratiometric Input Expansion module is used in conjunction with supported DSENet controllers to provide additional, flexible, input functionality. The module's ID switch is configurable from the module and the 10 inputs can be configured from within the 'host controller'.

The ratiometric inputs can be configured in a number of ways to connect to digital switches, resistive sensors, 0-10 V DC signals or 4-20 mA signals.

LED indication is provided for 'Power On' and 'Link Lost'

The DSE2131 is designed to be mounted within a control panel, either on the panel DIN rail utilising the integral mounts, or chassis mounted, utilising the mounting holes.

### 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

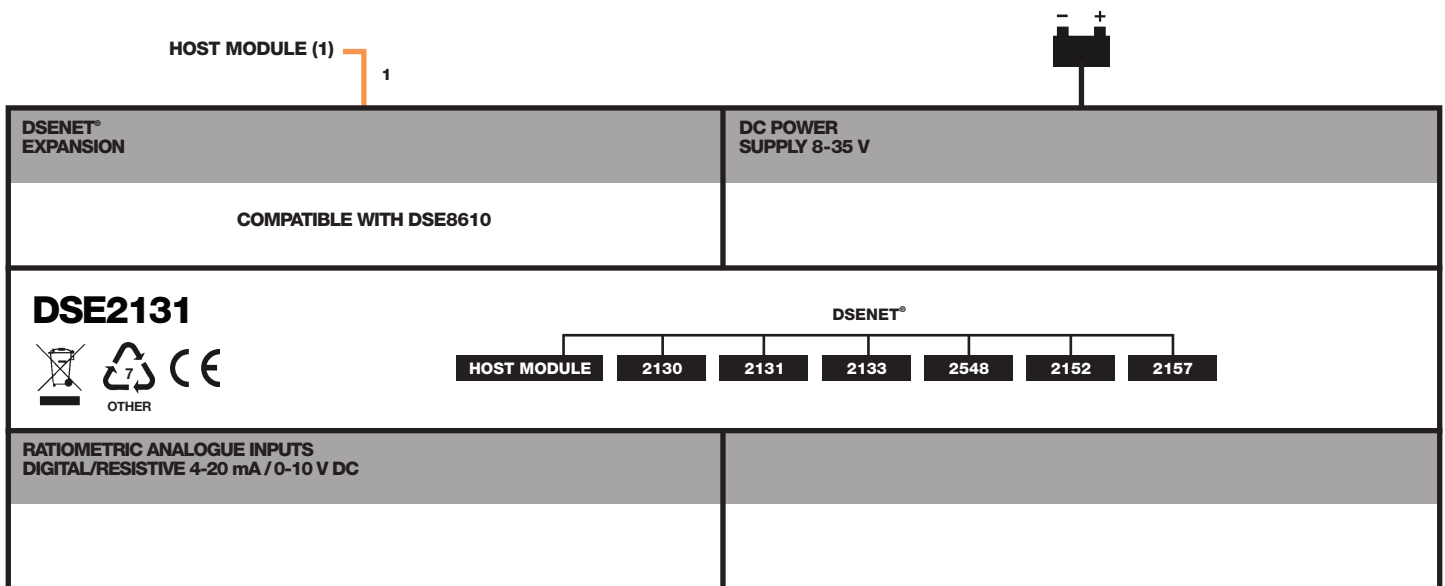
#### SHOCK

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

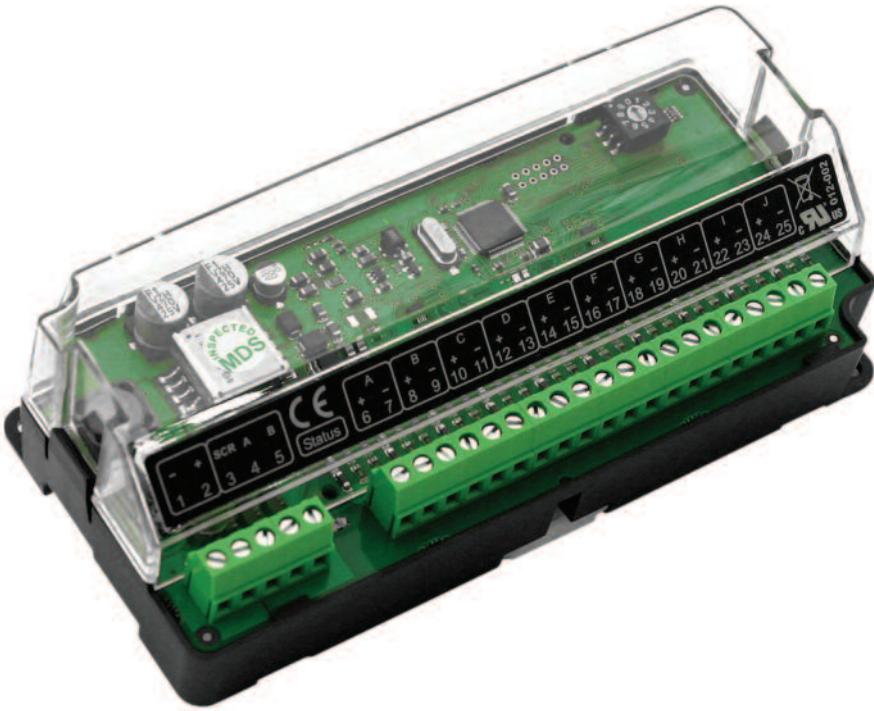


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### KEY FEATURES

- Power On/Link Lost LED
- 10 inputs configurable for digital/resistive 4-20 mA and 0-10 V DC
- A maximum of 4 modules can be connected to 1 host control module to provide up to 40 additional configurable inputs
- Works up to 1.2 km (0.75 miles) from the host controller
- Terminal strip connection for quick and easy set-up

### KEY BENEFITS

- Ideal for applications where additional control monitoring is critical

### 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

292 mA at 12 V, 167 mA at 24 V mA at 24 V

#### MAXIMUM STANDBY CURRENT

101 mA at 12 V, 66 mA at 24 V

#### INPUTS

10 inputs configurable for digital/resistive (3k ohms) 4-20 mA and 0-10 V DC

#### 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

DSE2131 Installation Instructions  
DSE2131 Operator Manual

#### PART NO'S

053-125  
057-139

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