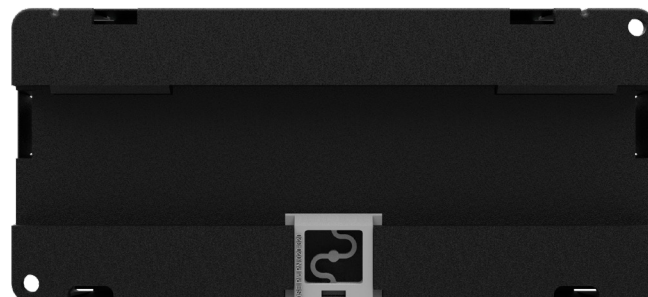
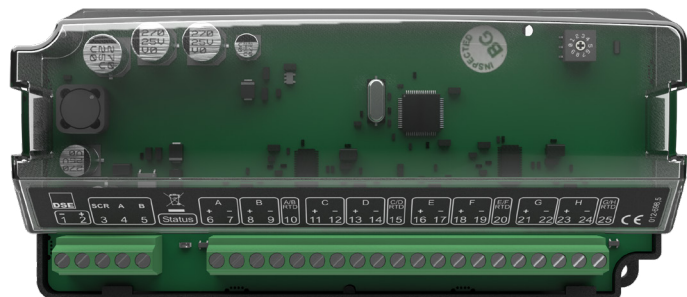


DSE2133 DSENet® RTD/Thermocouple Input Expansion Module

Part Number: 2133-01



Overview

The DSE2133 DSENet® RTD/Thermocouple Input Expansion module is used in conjunction with supported DSENet® modules. The DSE2133 extends the host modules input capabilities for increased application flexibility. This is achieved by providing an additional 8 RTD/Thermocouple inputs which configured as J Type Thermocouple, K Type Thermocouple or Pt100.

For enhanced communication with the host module, the DSE2133 features DSENet® for compatible devices. A red status LED is provided to easily identify when the DSE2133 is connected to a power source and communicating with the host controller. The DSE2133 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.

Key Features

- 8 RTD/thermocouple inputs (configurable as J or K type thermocouple or Pt100 RTD sensors)
- Status LED to indicate power on and link lost
- DSENet® communication

Product Approvals

- + CE
- + UL Listed: Standard - UL 6200:2019

Product Documentation

053-126 – DSE2133 Installation Instructions
057-140 – DSE2133 Operator Manual



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Registered in England & Wales No.01319649
VAT No.316923457

055-114/08/26 (2)

DSE2133 DSENet® RTD/Thermocouple Input Expansion Module

Part Number: 2133-01

Specifications	
DC Supply	
Continuous Voltage Rating	8 V to 35 V DC 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 are not maintained during cranking.
Maximum Operating Current	62 mA at 12 V, 36 mA at 24 V
Maximum Standby Current	59 mA at 12 V, 33 mA at 24 V
RTD / Thermocouple Inputs	
Number	8
Configurable as	J Type Thermocouple, K Type Thermocouple or Pt100
Probe Type	Insulated
Input Resolution	0.0015 % when configured as RTD 0.18 % when configured as Thermocouple
Input Accuracy	±1 % or ±2 °C, whichever is greater
Communications	
DSENet®	Fully isolated
Temperature	
Operating Temperature	-30 °C to +70 °C / -22 °F to +158 °F
Storage Temperature	-40 °C to +85 °C / -40 °F to +185 °F
Dimensions	
Overall (W x H x D)	164.6 mm x 76.4 mm x 48.9 mm / 6.48 " x 3.01 " x 1.93 "
Mounting	
DIN Rail	35 mm / 1.35"
Chassis	2 M4 mounting holes with 152.37 mm x 64.50 mm / 6.00 " x 2.54 " centres

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DSE2133 DSENet® RTD/Thermocouple Input Expansion Module

Part Number: 2133-01

Related Products		
DSEgenset®		
DSEG8900	7" Colour Parallel Genset Controller	G8900-01
DSEG8680	Bus Tie Controller	G8680-01
DSEG8660	Mains (Utility) Controller	G8660-01
DSEG8600	Parallel Genset Controller with Integral Heater	G8600-01
DSEG7400	Advanced Single Genset Controller	G7400-01
DSEG7300	Advanced Single Genset Controller	G7300-01
DSE8660 MKII	Auto Transfer Switch & Mains (Utility) Control Module	8660-02
DSE8620 MKII	Synchronising Auto Mains (Utility) Failure Load Share Control Module	8620-02
DSE8610 MKII	Synchronising & Load Sharing Auto Start Control Module	8610-02
DSE7410 MKII	Auto Start Control Module	7410-03
DSE7310 MKII	Auto Start Control Module	7310-03
DSE6120 MKIII	Auto Mains (Utility) Failure Control Module	6120-05
DSE6110 MKIII	Auto Start Control Module	6110-05
DSEControl®		
DSEE800	Engine Only Control Module	E800-01
DSENet®		
DSE2548	DSENet® LED Output Expansion Module	2548-01
DSE2170	DSENet® RTD/Thermocouple/Analogue Output Expansion Module	2170-01
DSE2160	DSENet® Input / Output Expansion Module	2160-01
DSE2157	DSENet® Output Expansion Module	2157-01
DSE2152	DSENet® Analogue Output Expansion Module	2152-01
DSE2131	DSENet® Ratiometric Input Expansion Module	2131-01
DSE2130	DSENet® Input Expansion Module	2130-00

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Part Number: 2133-01

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 61010	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 5 Hz to 8 Hz at ± 7.5 mm, 8 Hz to 500 Hz at 2 Gn
Humidity	
BS EN 60068-2-30	Db Damp Heat Cyclic 20/55 °C at 95% Relative Humidity 48 Hours
BS EN 60068-2-78	Cab Damp Heat Static 40 °C at 93% Relative Humidity 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

Pin Out Description	
Pin	Description
1 to 2	DC Supply
3 to 5	DSENet®
6 to 25	RTD / Thermocouple Inputs

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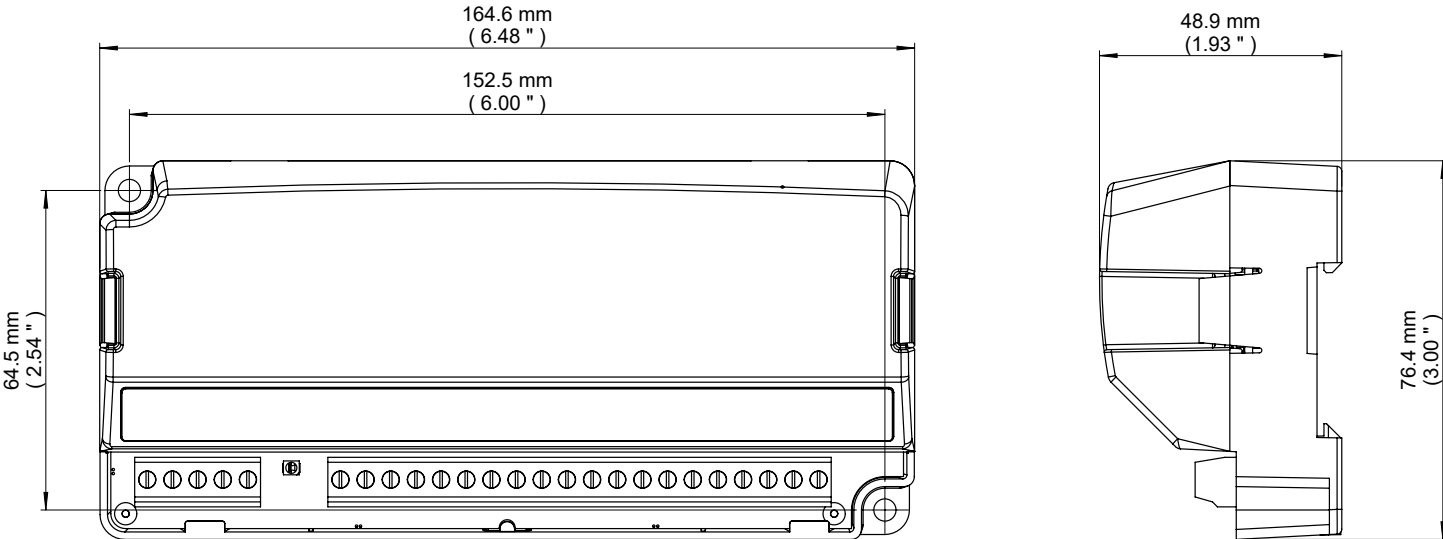
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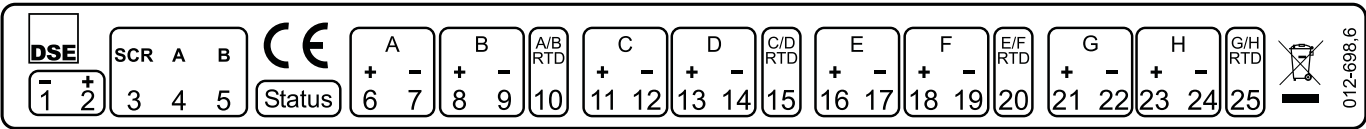
DSE2133 DSENet® RTD/Thermocouple Input Expansion Module

Part Number: 2133-01

Technical Drawing



Connection Label



Product Documentation

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