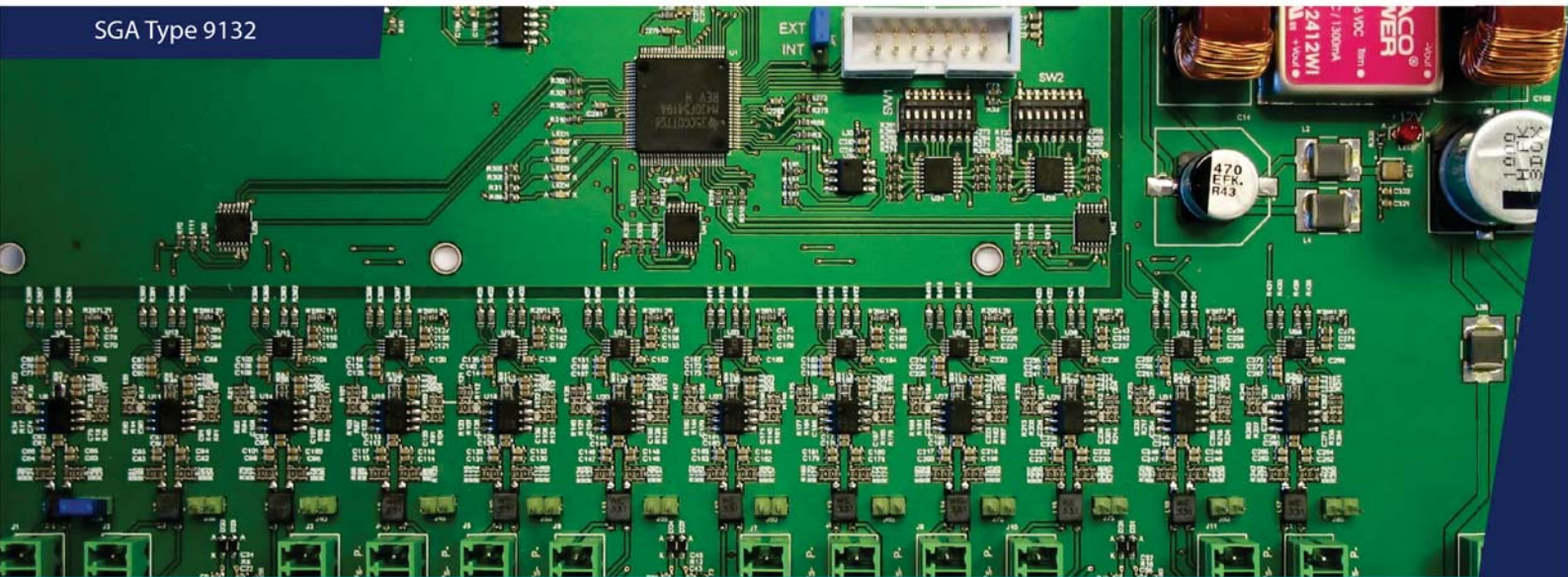


SGA Type 9132



## Type 9132 12 Channel Strain Gauge Amplifier Data Sheet

To complement our range of strain gauge amplifiers, Straininstall provide a 12-channel amplifier card, designed and manufactured in-house. This card facilitates the larger number of channels required for monitoring on larger mooring systems.

The amplifier card has the facility for 6-wire full bridge inputs; connecting the excitation sense wires as close to the bridge as possible provides compensation for voltage loss due to long cable runs. The card also incorporates an on board ADC and the facility for digital filtering.

### System Benefits:

- Card designed for mooring applications
- Card provides a direct drive for Allen Bradey PanelView displays
- Provides any combination of strain gauge and 4-20 mA analogue inputs
- Digital I/O ideal for local alarm enabling and acknowledgement

SPECIFICATION	
Dimensions	220 x 130 mm
Supply Voltage	24 Volts dc nominal
Input range (Strain Gauge) (Analogue)	0.2 to 4 mV/V 4-20 mA
Accuracy	< +/- 0.02%
Frequency response	50 Hz
Step Change Response	95% of final value in 400 $\mu$ s
Output	2 x RS 485, 2 x RS 232 4 x Digital I/O
Temperature Range	- 20°C to + 70°C
EMC	EN 61000-4-4, EN 61000-4-5 : Performance criteria A EN 61000-4-3, EN 61000-4-3 : Performance criteria B
Vibration	IEC60945 : 2002 3-100 Hz: 1mm amplitude below 13.2 Hz 0.7 g peak acceleration above 13.2 Hz
Strain Gauge	6 - Wire Connection
ADC Resolution	24 Bit
Bridge Supply	5 Volts dc regulated
Approvals (Pending)	DNV ATEX Zone 2 UL Listing

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