



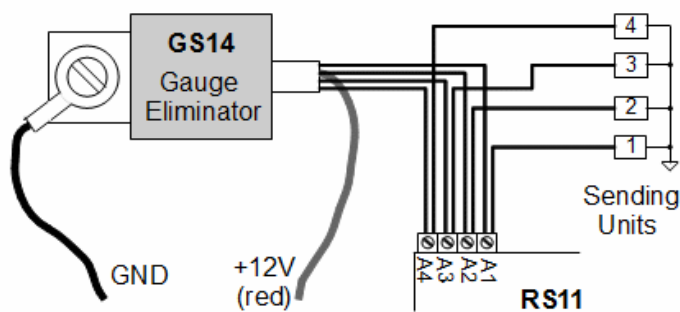
## NoLand Engineering GS14 Gauge Eliminator

The GS14 Gauge Eliminator from NoLand Engineering is a 4-channel constant current source which replaces the gauges in automotive and marine engine applications. It provides power to sending units in the 10-500 ohm range, which covers most common types used for pressure, temperature, etc. When the GS14 is used with the RS11 Engine Data Converter and any appropriate NMEA 2000 Display, no traditional analog gauges are necessary on the vessel. It is particularly useful where the original gauges are not functioning and alternative displays, such as NMEA 2000 Chartplotters, are available. It can also be used where new sensors are to be installed without gauges.

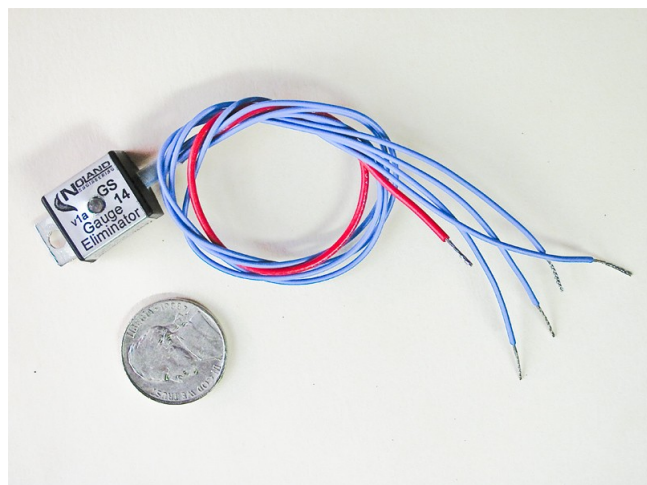
The GS14 applies a constant current to each sending unit (sensor) to produce a linearly varying voltage as the sensor resistance changes. It can drive up to 4 sending units at about 9 ma. each. The output current is constant with both load and temperature, which produces a sensor voltage that is directly proportional to the sensor resistance. Since the sensor resistance is commonly between 10-500 ohms, the sensor voltage will vary from approximately 0.1-5V. This sensor voltage can be converted into digital data by an appropriate instrument, such as the NoLand RS11 Converter, for display as desired.

The GS14 is packaged in a small (thumb-sized) cube with an LED to show the unit is functioning. When power is applied, the LED shines dimly if no sensors are connected to any of the 4 outputs. As sensors are connected, the LED will get progressively brighter indicating a good sensor. Unused outputs should be left open (disconnected).

The diagram below shows a typical installation of the GS14 with the RS11 Engine Data Converter.



*NOTE: When used with the RS11, the internal jumper(s) of RS11 must be set to '5V' for each input (A1-A4) that is connected to the GS14. Any other jumper setting will reduce resolution and linearity.*



Parameter	Specification
Supply Voltage/ current	10 - 18Vdc / 45 ma. (max)
Output current (nominal)	9-10 ma. per channel
Size/ weight	.4x.5x.6" / 1 oz.

NoLand Engineering, Inc.  
728 E. Lincoln Ave., #3  
Melbourne FL 32901  
www.nolandeng.com