SGS-350
STRAIN GAUGE SIMULATOR

FEATURES

- Power supply from 5 to 10 V
- Sensitivity from 0 to 2 mV/V
- Linearity to 0.5%
- 10-turn potentiometer
- Aluminum case

SGS-350

DESCRIPTION

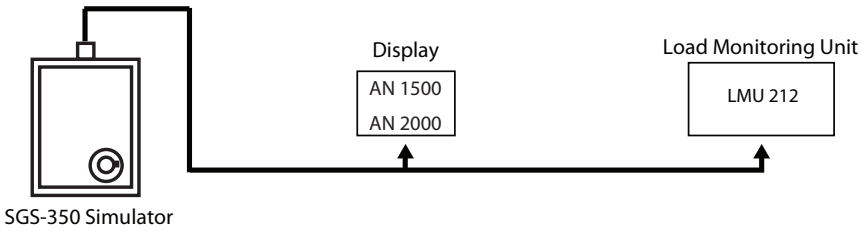
The SGS-350 is a strain gauge bridge simulator made entirely with passive components and an aluminum housing designed for use in particularly harsh environments.

The SGS-350 can be used in place of a 350 Ohm strain gauge sensor in order to test or calibrate a LMU Series Load Monitiring Unit, including threshold overload testing.

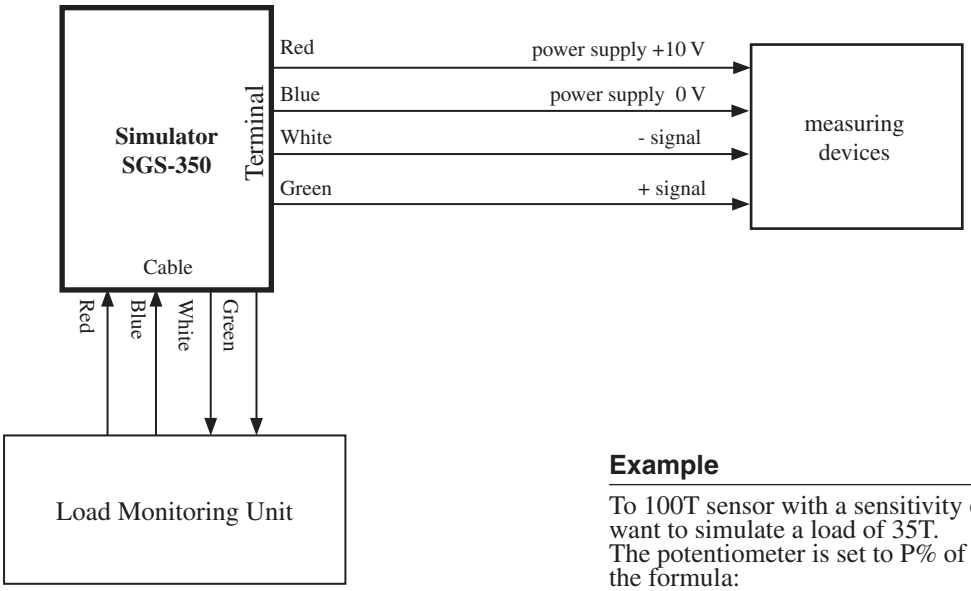
The SGS-350 can be supplied with a 5 or 10 V DC power supply and provides a voltage according to this measurement from 10 to 20 mV.

Combined with a LMU Series Load Monitoring Unit, the strain gauge simulator allows operational tests and settings to be preformed prior to use on site.

SYSTEM CONFIGURATION



BLOCK DIAGRAM



Example

To 100T sensor with a sensitivity of 1.5 mV/V we want to simulate a load of 35T.
The potentiometer is set to P% of full scale using the formula:

P = K / 2 x R / N x 100

With

P = % adjustment of the potentiometer
K = sensitivity of the sensor
R = load sensor
N = nominal value of the sensor

In our example P = 1.5 / 2 x 35/100 x 100
P = 26.25%

Due to the continual development of our products, we reserve the right to modify specifications without forewarning.

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