

The SGA series signal conditioners are ideal for cyclic and high speed testing where no display is needed. Available in single and dual channel versions, they provide the signal conditioning electronics needed for a strain gage based extensometer.



Model SGA channel signal conditioner

The SGA has adjustable excitation voltage and a high accuracy amplifier to provide a high level DC voltage output. An offset adjustment potentiometer is easily accessible on the front panel.

The output is ideal for direct connection to data acquisition boards or test controllers which require high level voltage or current inputs.

All models are supplied with a universal power supply and adapters for your country: specify regional adapters when ordering. A 2.5 m (8 ft) output cable is included to connect to external systems. Calibration with an extensometer (for each channel) is included.

SPECIFICATIONS

- Zero Adjustment
 - Knob(s): On front panel. Fine ($\pm 5\%$ FS) and coarse ($\pm 80\%$ FS) adjustment ranges
 - Selectable
 - Output Ranges: $\pm 5V$, $\pm 10V^*$, 0-10V, 0-20 mA, etc.
 - Bridge Excitation: 5V or $10V^*$ DC
 - Bridge Sensitivity
 - Range: 0.06 to 30.0 mV/V
 - Linearity: 0.03% FS typical
 - Filtering: 8 settings, 1-5000 Hz, plus secondary 800 Hz filter. 1 kHz* default
 - Operating
 - Temperature Range: -10 to +50 °C
 - Zero Temperature
 - Coefficient: 0.009%/C (90 ppm/°C)
 - 90 Day Output
 - Stability: ~330 ppm
 - Output Noise: 10-100 μV (1-100 ppm), depending on filter, DAQ, and gain. 50 μV typical
 - Input Power: 100-240 VAC, 50-60 Hz. Specify regional power plug type required. Includes: power supply, connection for extensometer(s), output cable(s) and calibration with extensometer

*default setting

Model SGA Available Versions:
 Model SGA-1 Single channel signal conditioner
 Model SGA-2 Dual channel signal conditioner



Model SGA single channel signal conditioner

Model SGA single channel rear panel



Model SGA dual channel signal conditioner

Model SGA dual channel rear panel