

# Strain Gage Signal Conditioner Model SGSC - 2



SGSC-2 is a miniature, high accuracy Signal Conditioner for Strain Gage based transducers. Appropriate for operating full bridge transducers such as force, pressures, tilt and torque transducers. Method of operation: dual variable regulated power supply excites the bridge, +IN and -IN connect to an isolation instrumentation amplifier, output of amplifier is fed into double pole filter, then to GAIN adjustment amplifier (using trimpot P1). ZERO adjustment can be done using trimpot P2



On board connector:  
Terminal Block wire size: up to 4 mm<sup>2</sup> max.

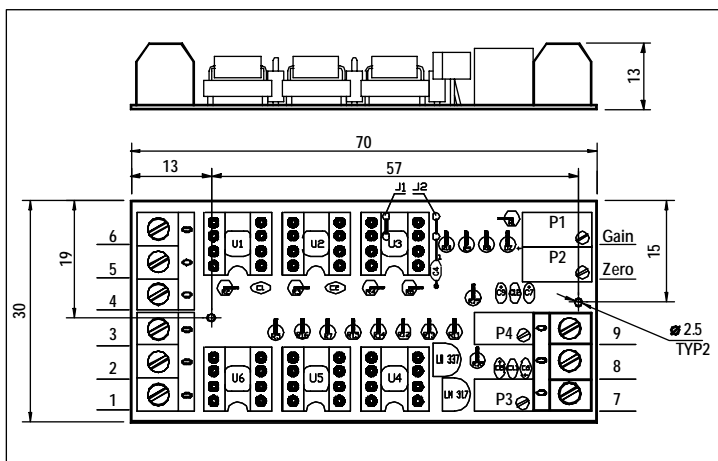
### Specifications:

**Excitation**..... 1.5 V to 5 V  
**Strain Gage resistance**..... 200 Ω to 350 Ω  
**Power supply requirements**.... ±8V to ±12 V @  
 50 mA at no load  
**Output Voltage**..... ±10 V DC max, 25 mA max.  
**Dynamic range**..... DC to 5kHz  
**Non linearity**..... < 0.1% of FS  
**Operating temperature range**... 0° to +70°C  
**Warm up time**..... 10 minutes

### Trimmer adjustment

P1	GAIN
P2	ZERO
P3	+EX ADJUST
P4	-EX ADJUST

### Dimensions (mm):



### Wiring

1	+EX
2	-EX
3	GND
4	-IN
5	+IN
6	OUT
7	+V (SUPPLY)
8	GND
9	-V (SUPPLY)

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