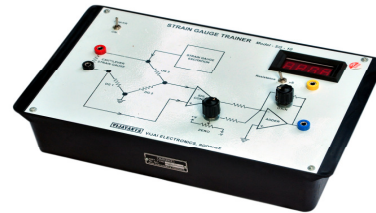


## CHARACTERISTICS OF STRAIN GAUGE,

MODEL : SG – 10.

There are many Strain Gauge instrumentation circuits available. The type instruments system depends upon the following considerations :

1. Whether static or dynamic strains have to be measured.
2. Whether an analog or a digital readout is desired.
3. Whether output is to be displayed on a recorder for instantaneous reading or for permanent record.
4. Whether a single channel is required or multi channel measurement is necessary.



Depending upon the requirement a suitable instrumentation may be selected.

The most commonly used circuit for strain measurements is a wheat stone bridge with D.C. excitation. The strain may be measured with the help of a voltmeter. The scale of the voltmeter may be calibrated in terms of strain.

### THE SET – UP CONSISTS OF :

- (i) 3 ½ Digit Digital Panel Meter for Strain and Resistance Measurement.
- (ii) Cantilever fitted with strain gauge (Bonded type) on front panel.
- (iii) Power Supply :
  - \*\* Built in over load and short circuit proof  $\pm 15$  Volt D.C. Supply for amplifier and Digital Panel Meter.
  - \*\* Input : 230 Volt, 50 Hz.
- (iv) D.C. Amplifier.

### EXPERIMENTS :

- (i) Characteristics of Strain Gauge between :
  - \*\* Resistance and Strain.

*Note: There may be any change in specification due to continuous R & D without notice.*

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