

**EXPERIMENT -01**

**AIM:** Study of the pressure transducer – a strain gauge and measurement of unknown weight.

**Pre questions:** 1. What is transducer.  
2. What is strain gauge.

**APPARATUS REQUIRED:** Strain Gauge Trainer Kit, Patch Cords and Different Weights.

**THEORY:** A strain gauge is a conducting wire whose resistance changes by a small point when it is lengthened or shortened. The change in length is small, a few millionths of an inch. The strain gauge is bonded to a structure so that the percent change in length of the strain gauge and structure are identical.

A foil-type gauge is shown in (a). The active length of the gauge lies along the transverse axis. The strain gauge must be mounted so that its transverse axis lies in the same direction as the structure motion that is to be measured figure (b). Lengthening the bar by tension lengthens the strain gauge conductor and increases its resistance. Compression reduces the gauges resistance because the moral length of the strain gauge is reduced.

**CIRCUIT DIAGRAM:**

**Fig.1.1**

# Transducer Lab Manual

**M Tight**



## **Transducer Lab Manual:**

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