#### EXPERIMENT -01

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

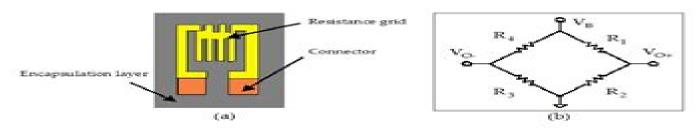
Pre questions: 1. What is transducer.

2. What is strain gauge.

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

**THEORY**: A strain guage 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 guage is bonded to a structure so that the percent change in length of the strain guage and structure are identical.

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



#### CIRCUIT DIAGRAM:



Fig. 1.1

# **Transducer Lab Manual**

M Tight

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