

KPHM-28**YOUNG'S MODULUS BY STRAIN GAUGE****Experiment(s):**

1. Determination of Young's modulus of rectangular cross section by cantilever method

Experiment setup consists:

- a) Strain gauge amplifier
- b) Weight set

Specifications:**a) Strain gauge amplifier**

Milli-voltmeter with built in power supply and zero setting
Strain gauges: 4 Strain gauges connected in Wheatstone bridge

Gauge factor: $2.1 \pm 2\%$

Excitation voltage: 1.2 V

Load variation: Slotted weight set

Rated Input: 220 V/50 Hz

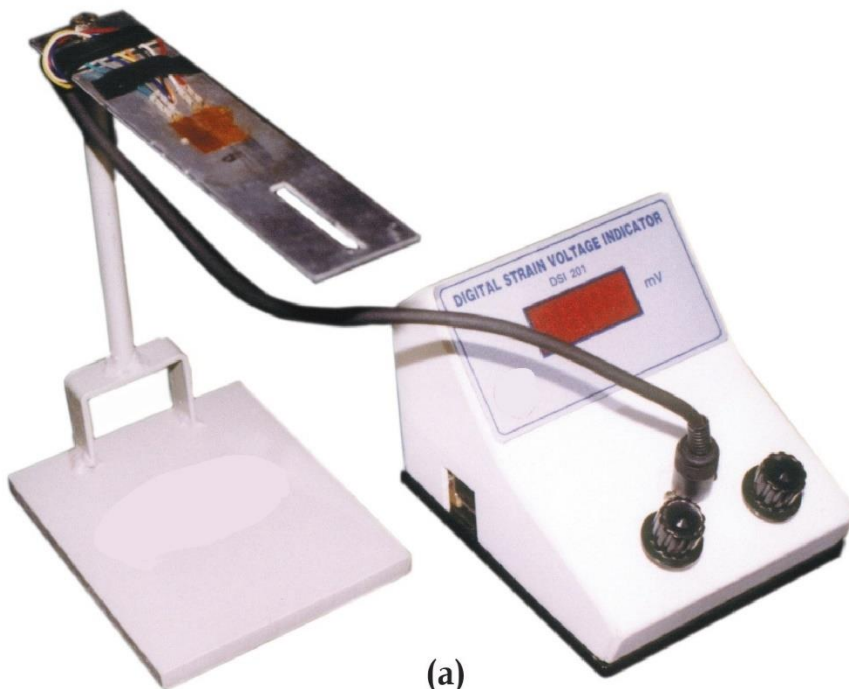
or 110 V/60 Hz

Cantilever beam: Aluminium of standard length and thickness,

Interchangeable beams with varying length, thickness and materials available on request

b) Weight set

One set of 5 x 50 g

**(a)****(b)**