

**TO STUDY OF OSCILLATIONS FOR  
A MASS AND DETERMINE THE FORCE  
CONSTANT IN DIFFERENT CASE'S  
OMEGA TYPE ES-396**



**OMEGA TYPE ES-396** Experimental Set Up has been designed specifically for to study of oscillations for a mass and determine the force constant in different case's. The set up is absolutely self contained and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

#### OBJECT:-

1. To study of oscillations / Motion for a mass of two springs and hence to determine the force constant for spring
  - 1.1 For a single spring.
  - 1.2 In series combination.
  - 1.3 In parallel combination.
2. To determine the restoring force per unit extension (force constant) and the mass of a spiral spring by dynamical method
3. To determine the restoring force per unit extension (force constant) of a spiral spring by statical method and verify the Hook's low and calculate the value of 'g'.
4. To find the elastic limit and study the oscillations of a rubber tube.

#### FEATURES:-

- 1 Two spring
- 2 One Spring
- 3 Slotted weight set : Brass having one hanger 10gm and slotted weights of 10, 20, 20 & 50gm one each. Total weight 110gm
- 4 Set of five containing four slotted one hanger each weighing, 50 gm. Weights with Hanger Set total 250 gm. iron painted .
- 5 Set of five containing four slotted one hanger each weighing, 100 gm. Weights with Hanger Set total 500 gm. iron painted .
- 6 Rubber tube (Cycle valve tube 50cm)
- 7 Digital stop clock OMEGA TYPE DSC-602 : With START/STOP operation by means of toggle switch & RESET by a push button switch. It has a range of 999.9 seconds with resolution of 0.1 seconds and accuracy of  $\pm 0.01\%$  (Quartz controlled). Display is thorough 4 no's of 12.5mm bright Seven Segment Displays and working voltage of the unit is  $230V \pm 10\%$  50Hz.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

## OMEGA ELECTRONICS

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