

**FIND THE MOTION OF A SPRING AND  
CALCULATE: SPRING CONSTANT,  
ACCELERATION DUE TO GRAVITY,  
MODULUS OF RIGIDITY  
OMEGA TYPE ES-445**



**OMEGA TYPE ES-445** Experimental Set Up has been designed specifically for find the motion of a spring and calculate: spring constant, acceleration due to gravity, modulus of rigidity  
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:-**

To find the motion of a spring and calculate:

1. Spring constant.
2. Acceleration due to gravity.
3. Modulus of rigidity.

**FEATURES:-**

- 1 Rigidity support stand with meter scale, fine pointer and hook
- 2 One Spring for 250 gm
- 3 Slotted weights 50gm x 5 =250 with hanger ( Depends upon spring )
- 4 Vernier Calipers : Steel, Chromium plated, one side graduated in inches (5") & the other in cms (12 cms.) with adjusting wheel and depth gauge.
- 5 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.
- 6 Weight: 4 kg (Approx.)
- 7 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

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

**OMEGA ELECTRONICS**