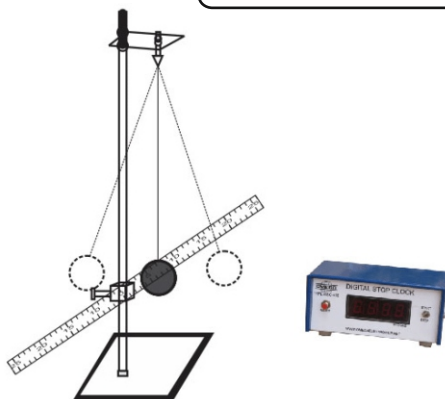


**STUDY OF HARMONIC OSCILLATION,  
COEFFICIENT OF DAMPING, RELAXATION TIME  
& QUALITY FACTOR USING SIMPLE PENDULUM  
OMEGA TYPE ES-374**



**OMEGA TYPE ES - 374** Experimental Set-Up has been designed specifically to study of damped simple harmonic oscillation & determination of damping coefficient of damping, relaxation time & quality factor using simple pendulum

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 determine

- 01 The coefficient of damping  $K$
- 02 Relaxation time  $t$  and
- 03 The quality factor  $Q$  of a damped simple harmonic motion using a simple pendulum.

**FEATURES**

The Complete Experimental Set-up consists of following items:

- 01 Simple Pendulum : Consisting of six type ball of different material as follows :-
  - 1.1 Brass
  - 1.2 Aluminum
  - 1.3 Iron
  - 1.4 Steel
  - 1.5 Copper
  - 1.6 Silver Ball. Each ball can be suspended by a wire (of iron, 1 mtr. length) to the clamp, complete with wall bracket.
- 02 Digital Stop Clock : With START/STOP operation by means of toggle switch & RESET by a push OMEGA TYPE DSC-602 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.
- 03 Metre Scale : Length of 25 - 0 - 25cm.
- 04 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**