



55874 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 Aluminium
- 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 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.

Note: Specifications are subject to change.

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