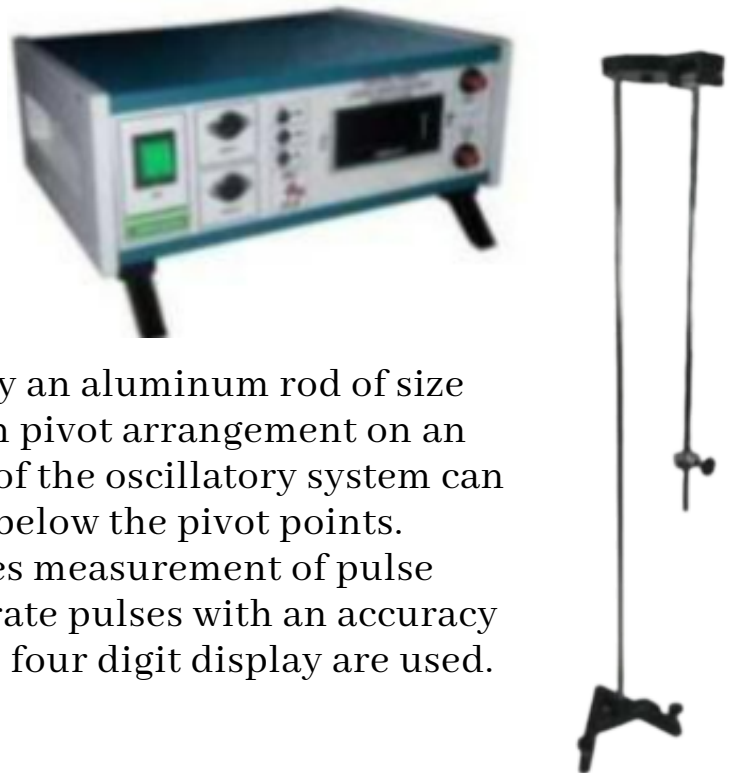


IV-E889 Electromagnetic Damping Of A Compound Pendulum And Damping Coefficient With Distance Of Conducting Lamina

- Experimental Set Up has been designed specifically to study Electromagnetic damping of a compound pendulum and to find the variation of damping coefficient with the distance of the conducting lamina. 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.

Scope of Learning:

- To study the electromagnetic damping of a compound pendulum and to find the variation of damping co-efficient with the distance of the conducting lamina.



Technical Specification:

- The Set up consists of the following:
 - Compound pendulum. It is essentially an aluminum rod of size 870mm approx., supported by two pin pivot arrangement on an aluminum stand. The center of mass of the oscillatory system can be shifted by sliding masses above & below the pivot points.
 - Digital Timer Two channel. It provides measurement of pulse duration, pulse period and two separate pulses with an accuracy of 10 micro sec. on each channel. Two four digit display are used.
 - Photo sensor.
 - Small bar magnet.
 - Apiary of plane metallic plates.
- Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.