

**TO STUDY VISCOUS (LIQUID) DAMPING
OF A COMPOUND PENDULUM &
DETERMINE ITS DAMPING
COEFFICIENT & QUALITY FACTOR
OMEGA TYPE ES-393**



OMEGA TYPE ES-393 Experimental Set Up has been designed specifically to study viscous (liquid) damping of a compound pendulum and determine its damping coefficient and quality factor. 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

- 01 To study viscous (liquid) damping of a compound pendulum
- 02 determine its damping coefficient and quality factor

FEATURES

The Set up consists of the following :

- 01 Compound pendulum, OMEGA TYPE CP-166. It is essentially an aluminium rod of size 870mm approx., supported by two pin pivot arrangement on an aluminium stand. The centre of mass of the oscillatory system can be shifted by sliding masses above & below the pivot points.

- 02 Scale for compound pendulum
- 03 Aluminium vanes of 1" round
- 04 Clamp with steel wire for vanes / ball
- 05 Brass Pin
- 06 Scale 50cm Long
- 07 Digital stop watch OMEGA TYPE DSC-602
- 7.1 START / STOP operation by means of mini toggle switch.
- 7.2 'RESET' by a push button.
- 7.3 RANGE : 999.9 seconds.
- 7.4 RESOLUTION : 0.1 seconds.
- 7.5 ACCURACY : $\pm 0.01\%$ (Quartz controlled).
- 7.6 DISPLAY : 12.5mm bright
- 7.7 POWER : 230V $\pm 10\%$ at 50Hz
- 7.8 Weight : 0.5 Kg. (Approx)
- 7.9 Dimension : W 160 x H 80 x D 45
- 08 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