

Compound Pendulum Apparatus (EDC-TM-104)

EXPERIMENTAL DATA:

- To determine the time period of simple and compound pendulum
- Investigate the effect of fulcrum position
- To determine the radius of gyration of a compound pendulum
- To find the acceleration due to gravity 'g'
- To verify the equation of motion for a compound pendulum



DESCRIPTION:

This wall mounted apparatus comprises of bar suspended at its pivot point. A movable mass is attached to the pendulum bar and can positioned at seven different positions along the length of the bar. This enables the radius of gyration of the compound pendulum and the acceleration due to gravity to be determined.

To observe the experiment capabilities of a simple pendulum, a movable mass with a cord is also included. with adjustable pendulum mass is also included.

A digital stopwatch is also included to measure the time interval of the pendulum motion. Accurate positioning of the pendulum mass is achieved using the ruler provided.

TECHNICAL SPECIFICATIONS:

- Pendulum Bar (LxWxH): 1000 x 28 x 5 mm
- Thread pendulum length upto 2000mm and mass D=50mm
- Six (6) positions: 100mm centers
- Pendulum Bar: approximately 0.6kg

RELATED LAWS:

- Acceleration due to Gravity
- Radius of Gyration
- Oscillations
- Vibration

WEIGHT AND DIMENSIONS:

- L x W x H (mm): 1100 x 300 x 150
- Weight (approx): 5 kg

SCOPE OF DELIVERY:

- 1 x EDC-TM-104
- 1 x Bar
- 5m Spare Cord
- 1 x Bob
- 1 x Stopwatch
- 1 x Instructional Manual s