



55936 Torsional Pendulum Setup dramatically demonstrates how torsional oscillation passes in any rigid body. The Torsional Pendulum Setup is provided with spherical and cylindrical masses, the dimensions of these masses are being determined to calculate the rotational inertia. The masses are suspended from a wire whose Modulus of Rigidity is to be determined. When the mass is slightly twisted and released, it will undergo simple harmonic motion. The period of oscillation is measured with the help of measurement unit, which is microcontroller based and facilitates automatic calculations.

Features

1. Microcontroller based Measurement Unit
2. Cylindrical and spherical bodies for oscillation
3. Inverted chuck screw connection
4. Leveling screw for horizontal balance

Object

1. Determination of modulus of rigidity of material

Technical Specifications

Circular Base

Type : Iron
Diameter : 24 cm

Suspension Wire

Type : MS Wire
Diameter : 0.68mm

Experimental Body

Cylindrical

Diameter : 65 mm
Weight : 2.13kg

Spherical

Diameter : 100mm
Weight : 1.6kg

Measurement Unit

Adaptor Input : 100-300V, 50/60Hz
Adaptor Output : 5V DC
Least Count : 1Sec

Note: Specifications are subject to change.