OSCILLATING PENDULUM AND FORCED OSCILLATIONS

PRODUCT SHEET

Reference : OSCFOR

The device is delivered complete and allows the static and dynamic studies of springs: Hooke's law, free and forced oscillations, damping, etc.

Composition:

- 1 box with step engine, its control and its power supply (mains unit), display of the frequency of rotation
- 1 eccentric pulley connected to the step engine
- 1 integral stem with the case
- 1 graduated rule with central zero, mounted on a support that can slide on the stem
- 1 spring
- 1 rod serving as both a support for the mass and a guide for the spring
- 1 string connecting the eccentric pulley to the spring
- 3 masses of 50 g
- 3 plastic washers of different diameters for the study of friction

- 1 specimen to study the influence of a fluid damping on the oscillation amplitude

Feasible studies with the device:

- Statics study: verification of Hooke's law
- Dynamics study: measuring the inherent period of a mass / spring system
- Study of forced oscillations: influence of the frequency of the exciter on the phase of the resonator

Technical characteristics:

- Display: Red LED 3 digits
- Power supply: 230 V/50Hz