



Three-axis gyroscope with turntable

EQ281A

Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: Mechanics of rigid bodies. Gyroscope moment of inertia. What is meant by gyroscope. Some technological applications of the gyroscope. Determining the moment of inertia of the gyroscope. Calculating the percentage relative error. The precession movement of the gyroscope. The gyroscope always maintains the same direction in the absence of forces that disturb it. The gyroscope and gyrocompass, gyrocompass. The precession movement of the gyroscope. The influence of torque on the precession movement of the gyroscope. The influence of the direction of rotation of the flywheel on the precession movement. The nutation movement of the gyroscope. The influence of torque on the gyroscope nutation movement. Identifying the simultaneous movement of precession and nutation of the gyroscope, etc.

Knowledge areas

Physics

Key Experiments

