Basic looping with trimmer, analog and digital multimeter and photoelectric sensor
EQ316B2JM

Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: motion in two dimensions, kinematics, determining the minimum launch height to complete the looping, discussing the conservation of mechanical energy in a looping, neglecting the rotational motion of the sphere, measuring the height and determining the value of the initial potential energy of the sphere at point A, measuring the height and determining the value of the potential energy of the sphere at point B, determining the value of the kinetic energy of translation of the sphere at point A, measuring the value of the translational kinetic energy of the sphere at point B, discussing the conservation of mechanical energy in a looping, considering the rotational motion of the sphere, measuring the height and determining the value of the initial potential energy of the sphere at point A, measuring the height and determining the value of the potential energy of the sphere at point B, determining the value of the kinetic energy of translation of the sphere at point A, determining the value of the kinetic energy of rotation of the sphere at point A, measuring the value of the velocity of translation and the kinetic energy of translation of the sphere at point B, determining the value of the kinetic energy of rotation of the sphere at point B, percentage relative error, etc.

Note: External memory device for USB pen drive connection is not included.

Knowledge areas

Physics

Level

High school - Elementary school