



## Looping with scale, magnetic hold, analog and digital multimeter with photoelectric sensor

EQ316AJM

### Function

Intended for experimental study, physics laboratory and carrying out physics experiments on: movement in two dimensions. Kinematics. Determining the minimum launch height to complete the loop. Energy conservation. Determining and discussing the conservation of mechanical energy in a loop, not considering the rotation of the sphere. Measuring heights from different points and determining the potential energy value of the sphere at the measured heights. Determining the value of the translational kinetic energy of the sphere at point A. Measuring the value of the translational kinetic energy of the sphere at point B. Determining and discussing the conservation of mechanical energy in a looping, considering the rotation of the sphere. Measuring the value of the translation velocity 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. Determining the moment of inertia of the sphere through the kinetic energy of rotation. Percentage relative error between the value obtained from experimental data and the calculated one, etc.

### Knowledge areas

Physics

### Level

Graduation - Technical education

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