

The invention relates to area of measuring engineering and can be used for implementation of gravimetric measurements on movable basis in geodesy, geology, navigation systems. Gravimeter includes two-stage dynamically adjustable gyroscope to which torque indicator (4) is connected. Center of mass of rotor of two-stage dynamically adjustable gyroscope is shifted in direction normal to axis of its rotation. To set of gravimeter additionally are included indicator of angle of turn and device for calculation and compensation of errors of measurements brought to existence with curving of trajectory of motion of rotor, non-equality to zero of index of decay of precession vibrations of rotor and non-iso-synchronicity of the precession vibrations, this is used in algorithms for evaluation, with value of real circular frequency of precession vibrations of rotor. Input of indicator of angle of turn is connected to output of two-stage dynamically adjustable gyroscope, and output of indicator of angle of turn is connected to input of device for calculation and compensation of errors of measurements. The invention provides increase of accuracy of measurements.