

The present invention relates to geodetic devices. The proposed gyrotheodolite contains a casing, a gyroscopic unit, which is installed in the casing with a possibility to rotate relative to the vertical axis of the casing, a pendulum gyroscopic detecting element with a reflector, which is suspended in the gyroscopic unit, a photoelectric autocollimator, which is installed in the gyroscopic unit with a possibility of the optical coupling with the reflector of the detecting element, a drive for rotating the gyroscopic unit, a theodolite angle meter with an autocollimating sight tube, which is installed at the casing of the gyrotheodolite with a possibility to rotate relative to the vertical axis of the casing, a unit for measuring the angular position of the angle meter with a limb, which is fixed to the gyroscopic unit, and additionally, a reflector, which is installed at the casing of the gyrotheodolite and provides a possibility to adjust the positions of the sight tube of the theodolite angle meter and the photoelectric autocollimator to the position of the reflector, and a switching unit for switching the optical coupling between the autocollimator and the reflector at the casing of the gyrotheodolite. The stability of the position of the sight axis of the autocollimator for viewing the reflector at the detecting element and the reflector at the casing of the gyrotheodolite does not depend on the parameters of the switching unit. The proposed gyrotheodolite is distinctive by its enhanced measurement accuracy and ease in use.