

Instrument for measuring a direction of a horizontal component of a geomagnetic field consists of a housing comprising a base and a transparent cap, a fluid bearing having a stand, a limb with a holder, a circular cross-section vessel with a fluid, and a rotating part arranged on an open surface of the fluid comprising a circular cross-section floating element on which a magnetic field sensor is secured by fasteners. Side surfaces of the vessel and of the floating element, which is configured to self-center, are made of materials ensuring fluid wettability of one of these surfaces and non-wettability of the other, and a diameter of the floating element is such that a magnitude of a uniform gap between the side surfaces of the vessel and the floating element does not exceed a width of a curved free surface of the fluid; the instrument has an optical part consisting of a flat mirror element fixed on the floating element along an axis thereof, a directional light source fixed in the holder, and a screen with a scale.