

# Two-coordinate string tiltmeter

D.G. Taimazov

*Institute of Geology, Dagestan Scientific Center, Russian Academy of Sciences, Makhachkala, Russia*

**Abstract.** Structure and theory of the tiltmeter with the liquid, used as inertial body and damper, and the float with string transformer fitted with reliable distant system of arrestment, used as inclination indicator, are described. Its calculated inaccuracy is about  $\pm 4 \cdot 10^{-5}$  ( $\pm 2 \cdot 10^{-10}$ ) g in the range of  $\pm 4$  ( $\pm 2 \cdot 10^{-5}$ ) g. In the arrestment state the second sensitive system of capacitive type is turned on and device starts to register seismic accelerations.

**Keywords:** tiltmeter, inertion body, stringer converter, arrestment, seismograph.