



USES OF AN INCLINOMETER

- Inclinometers are used for:
- Determining latitude using Polaris (in the Northern Hemisphere) or the two stars of the constellation Crux (in the Southern Hemisphere).
- Determining the angle of the earth's magnetic field with respect to the horizontal plane.
- Showing a deviation from the true vertical or horizontal.
- Surveying, to measure an angle of inclination or elevation.
- Alerting an equipment operator that it may tip over.
- Measuring angles of elevation, slope, or incline, e.g. of an embankment.
- Measuring slight differences in slopes, particularly for geophysics. Such inclinometers are, for instance, used for monitoring volcanoes, or for measuring the depth and rate of landslide movement.
- Measuring movements in walls or the ground in civil engineering projects.
- Determining the dip of beds or strata, or the slope of an embankment or cutting; a kind of plumb level.
- Some automotive safety systems.
- Indicating pitch and roll of vehicles, nautical craft, and aircraft. See turn coordinator and slip indicator.
- Monitoring the boom angle of cranes and material handlers.
- Measuring the "look angle" of a satellite antenna towards a satellite.
- Measuring the slope angle of a tape or chain during distance measurement.
- Measuring the height of a building, tree, or other feature using a vertical angle and a distance (determined by taping or pacing), using trigonometry.
- Measuring the angle of drilling in well logging.
- Measuring the list of a ship in still water and the roll in rough water.
- Measuring steepness of a ski slope.
- Measuring the orientation of planes and lineations in rocks, in combination with a compass, in structural geology.
- Measuring Range of Motion in the joints of the body.