



The KGI Tiltmeter is a high-precision instrument for permanent inclination monitoring of structures such as dams, bridges and buildings. Its robust housing makes the KGI ideal for the harsh conditions on construction sites. Even more characteristic and a great advantage is the housing with its cardanic/gimbal bearing system. This design ensures an easy and rapid installation and a precise zero-orientation at the same time.

The KGI can be manufactured with one sensor as uniaxial or two sensors as biaxial version, furthermore it is equipped with a temperature sensor. An integrated controller with individual sensor address delivers a linearized digital output signal, where the data is transmitted via RS485 allowing an installation in series.

#### Technical data

Dimensions:	200 x 180 x 90 mm
Measuring axes:	1 or 2
Measuring range:	$\pm 5^\circ$ or $\pm 10^\circ$ or $\pm 30^\circ$
Standard resolution:	$\pm 0,01$ mm/m (0,01 mrad) on request higher
Linearity:	$\pm 0,2$ % f.s.
Hysteresis:	0,002 or 0,005 % f.s.

#### Measurement / Data Logging

For measurements and data logging the following options are available:

- For best results a continuous, automatic monitoring with a measuring station MCC is recommended. The measurements can be stored in freely definable intervals; a single or a series of sensors is directly connected to the MCC via RS485 interface; The MCC offers automatic data transmission and alarm massaging for highly-sensitive monitoring tasks; For online monitoring the data is available on our evaluation platform Smart Data Center "SDC"
- Analog Version for manual readings with readout unit NMA 09 available on request.