

Cardanic Bearing Tiltmeter

Type KGI



The KGI Tiltmeter is a high-precision instrument for permanent tilt monitoring of structures such as dams, bridges and buildings. The robust housing makes the KGI ideal for the harsh conditions on construction sites. An even more distinctive and great advantage is the housing with its gimbal bearing system. This design ensures easy and quick installation as well as precise zeroing. The KGI is equipped with a 3D MEMS sensor and can therefore be installed vertically or horizontally. An integrated controller with individual sensor address provides a linearized digital output signal, with the data being transmitted via RS485, which enables installation in series and over long distances.

TECHNICAL DATA

Dimensions:	200 x 180 x 90 mm
Measuring axes:	3
Measuring range:	$\pm 5^\circ$ or $\pm 10^\circ$ or $\pm 30^\circ$
Linearity:	$\pm 0,02$ % f.s.
Resolution:	0,004 mm/m
Operating temperature:	-20 °C up to +80 °C
Integrated temperature sensor:	yes
Protection class:	IP 66

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 messaging for highly-sensitive monitoring tasks;
- For online monitoring the data is available on our evaluation platform Smart Data Center "SDC"