



The BGN is used for high-precision measurement of changes in a building's inclination. It comprises a basic probe with a customised mechanically rigid bar extension up to 5 m long. This is guided and held in place by two fixing plates in a spherical cap without any play. The cap enables the fixing plate to adapt to an uneven building surface.

Alternatively, the fixing plate can also be equipped with threaded anchors as an optional accessory for depth compensation between two measuring points across a building projection. The BGN is available in different sensor configurations. Customers can choose between MEMS sensors, which are normally referred to as semiconductors, and high-precision acceleration sensors with a variety of angular resolutions. The probe has a digital output and BUS system and can be connected to a digital measuring device either individually or in a chain connection using a joint cable.

Technical data	VP1/5	VP2/5	VQ1/30	VQ2/30
Dimension:	1100 x 100 x 84 mm			
Weight:	6 kg			
Model:	Vertical			
Measuring axes	1	2	1	2
Probe Ø:	38 mm	38 mm	30 mm	30 mm
Basic bar Ø:	20 mm	20 mm	20 mm	20 mm
Measuring lengths:	1-5 m	1-5 m	1-5 m	1-5 m
Measuring range:	± 5° ± 15(10)°	± 5° ± 15(10)°	± 30°	± 30°
Maximum operating capacity:	± 5° ± 15°	± 5° ± 15°	± 90°	± 90°
Linearity:	± 0.2 % f.s.	± 0.2 % f.s.	± 0.005 % f.s.	± 0.005 % f.s.
TC at zero point:	± 0.01 % f.s./K ± 0.005 % f.s./K	± 0.01 % f.s./K ± 0.005 % f.s./K	± 0.005 % f.s./K	± 0.005 % f.s./K
TC in measuring range:	± 0.02 % f.s. ± 0.01 % f.s.	± 0.02 % f.s. ± 0.01 % f.s.	± 0.006 % f.s.	0.006 % f.s.
TC in operating range:	- 40 to 85 °C	- 40 to 85 °C	- 5 to 60 °C	- 5 to 60 °C
Cross sensitivity:	< 4 %*	< 4 %*	0.2 %	0.2 %
Hysteresis:	± 0.002 % f.s. ± 0.005 % f.s.	± 0.002 % f.s. ± 0.005 % f.s.	± 0.0005 % f.s.	± 0.0005 % f.s.

\* = up to ± 10 % lateral inclination