

# GLÖTZL Baumeßtechnik

## VERTICAL COMPASS PROBE

**Type: NMG D-K**  
**Art. No.: 75.07**

The vertical compass NMG D-K is used for torsion measurement in vertical guide tubes.

### Inductive Pick-Up

The vertical compass probe is manufactured of rust- and acid-resistant material and is equipped with movable guiding reels for measurement of profile tubes.

The main piece of this transducer is a magnetic field sensor which can precisely determine the alignment of an installed guide tube over its total length by the earth magnetic field.

By this measurement, the axial distortion of the measuring tube can be determined. During evaluation, the distortion values are used for directional correction of the real inclination measuring values in two directions A/B.

Furthermore, the compass is equipped with two inclination angle transducers which are displaced by a degree of 90° one to each other.

They are only used for the orientation of the magnetic field sensor and thus cannot be considered for borehole measurement.

Standard length of the probe is 0.5 m. By means of an elongation, the probe can be elongated to a measuring length of 1 m.



Figure: Vertical compass probe and probe elongation

### Technical Data:

Probe diameter:	32.0 mm
Measuring length:	0.5 m, 1 m elongation
Weight:	2.4/3.2 kgs
Total lengths:	700/1200 mm
Measuring range:	+/-30°
Absolute accuracy to mag. north:	+/-20°
Relative accuracy:	< +/-1°
Hysteresis:	< +/-0.5°
Operating range:	-5 °C up to +60 °C
Diameter of guide tube:	max. 75, min. 35 mm

### Models:

75.07.01	NMG D-K	Compass probe
75.02.00.01	NMV 0,5	Compass probe elongation for 1 m meas. length, dismountable