

SINC

Smart-Inclinometer-Chain

Art.-No. 75.91

The inclinometer chain type SINC is a modular extensible chain for inclination measurement in any position. The inclination and direction are determined in 3D using state-of-the-art MEMS sensors. Thanks to this technology, the inclinometer chain can be used in boreholes or measuring tubes without guide grooves. The main application is borehole measurement and deformation monitoring in existing pipes.



Technical Data

Material:	POM, stainless steel 1.4301 / 1.4571 (EN 10027-2)
Dimension:	Ø = 39,5 mm / different length available
Measuring axis:	3 (A / B vertical, x / y / z horizontal)
Measuring range:	± 30°
Max. measuring range:	± 60°
Linearity:	± 0,1 %
Resolution:	0,1 mm/m (0,1 mrad)
Sensor type:	3D-MEMS + Magnetometer (Compass)
Sensor type:	-20°C to +70°C

Accessories

- Base rod between the individual sensor elements (typical chain link [m]: 0,5 / 1 / 2)
- Connection cable between the individual sensor elements
- Centering pieces for adaptation to the diameter of the borehole/pipe
- MCC for automatic data acquisition and data transmission
- Web-based monitoring software SDC (Smart Data Center) for evaluation and presentation of the data

Special features

- Triaxial inclination measurement
- Triaxial measurement of direction
- Digital signal transmission via Glötzl-BUS
- Flexible adaption to different borehole diameter (Ø ≥ 40 mm)
- System does not need guiding grooves

