

3D Crack Meter

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HIGHLIGHTS

- Compact and rugged construction
- Simple installatio
- Automatic data acquisition possible



Crackmeter with dial gauge

Field of Operation

This easy to install arrangement is suited for monitoring cracks in walls of buildings or construction components. The possibility of measuring crack movements with high accuracy and in three dimensions is of significance, especially for ongoing monitoring measurements in the course of construction and for long-term monitoring.

Principle of operation and Data acquisition

The stainless steel angled mounting plates are arranged to enable measurements in the three spatial dimensions. In this way, a measuring range of +/- 15 mm can be achieved in each direction. Read-off can be either manually using a dial gauge or electrically using displacement transducers. The latter option enables automatic data acquisition and alarm triggering if limits are exceeded.

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Technical specifications

Range:	± 15 mm in all directions
Material:	nickel-plated brass
Max. width of crack:	90 mm
Accuracy:	0,02 mm
Resolution:	0,01 mm (depending on dial gauge)

Accessories:

- Dial gauge with pass template
mechanical or electrical (resolution ± 0,01 mm)

- Potentiometric displacement transducer (optional)

Range	50 mm, 100mm; 250mm optional
Resolution	theoretically ∞
Linearity	± 0,1 % (without linearisation)
Repeatability	± 0,01 %
Output signal	4 to 20 mA (optional)
Sealing class	IP 68

- Assembling template

- Protective cap
(Steel plate, galvanized)

- Conversion kit for angle installation



The following other data sheets are associated with this data sheet:

Software: *KRONOS Tunnel Information System*