GLÖTZL Baumeßtechnik

PRECISION DISPLACEMENT TRANSDUCER FISSUREMETER

available in 4 meas. lengths, 2 meas. ranges and 4 models

Type: GFD . . . Art. No.: 66.01

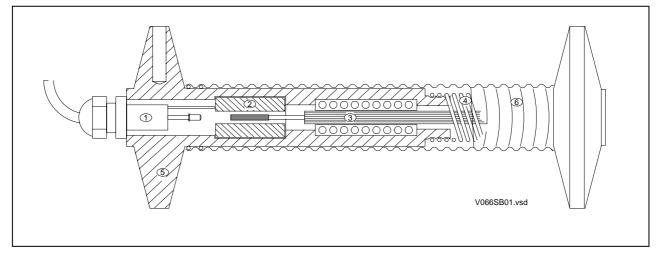
The precision tranducer GFD ... is used for measurement of smallest displacements with highest precision.

Different models are available and therefore the fissuremeter can be used as a multi-purpose instrument.

For recording of dilatations and upsetting deformations at or in buildings, the transducer is

annexed or embedded in the building material. Changes in length are recorded by high-resolution inductive displacement transducers.

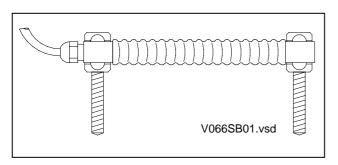
Furthermore, a temperature measurement can be carried out for recording the course of temperature and – if necessary – to make a corresponding compensation.



The zero position which can be adjusted over the full measuring range, is fixed by a compression-tension spring and the movement of the anchor points is precisely transferred by a linear ball bearing to the displacement transducer.

By this constructive solution, a displacement change can be recorded without considerable inherent resistances by system.

All transducers are encapsulated against spray and light pressure water and manufactured of stainless steel.



Fundamental component parts:

- 1 Connection cable with temperature transducer
- 2 Displacement transducer with shiftable core
- 3 Jacked rod and linear ball bearing
- 4 Zero position adjusting spring
- 5 Casing with anchor points
- 6 Corrugated pipe of steel or plastic dependent on model for mechanical protection and sealing

Measurement can be done with manual, semiautomatic or automatic measuring devices.

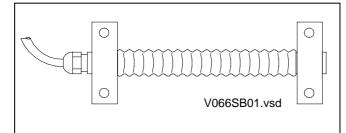
Model A

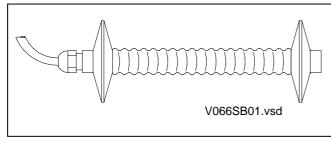
Fissuremeter for precise measurement of fissure movements. The instrument is fixed above the fissure by means of two anchor rods.

Transverse movements are uncoupled by ball-bearing.

Application examples:

Measurement and observation of rock fissures, movement of construction elements, observation of fissures at buildings





Model B

Precision displacement transducer for measurement of dilatation and upsetting deformations at building components

Application examples:

Fabric foils, steel parts for buildings, brickwork and concrete elements

The instrument is attached to building parts by screwing or welding.

Model C

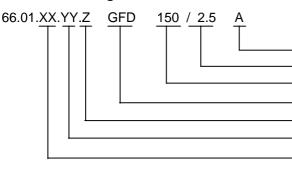
Special transducer for displacement measurement in cast or filled-up building components

Application examples:

In plastics, grounds, brickwork, concrete and shotcrete. The special models of anchor points are ensuring a good adhesion in the embedded medium.

Art. No.	Model	Meas. length [mm]	Displacem. [mm]	Model	Total length [mm]	Distance max. [mm]
66.01.01.01	GFD 150/2,5	150	2.5	A/B/C/D	180	3.5
66.01.01.02	GFD 150/5	150	5	A/B/C/D	180	7.5
66.01.02.01	GFD 200/2,5	200	2.5	A/B/C/D	230	3.5
66.01.02.02	GFD 200/5	200	5	A/B/C/D	230	7.5
66.01.03.01	GFD 300/2,5	300	2.5	A/B/C/D	330	3.5
66.01.03.02	GFD 300/5	300	5	A/B/C/D	330	7.5
66.01.10.01	GFD 1000/2,5	1000	2.5	A/B/C/D	1100	3.5
66.01.10.02	GFD 1000/5	1000	5	A/B/C/D	1100	7.5

Code for ordering:



- Model A / B / C or D

Displacement 2.5 or 5 mm, further ones on request Measuring length 150, 200, 300 or 1000 mm Precision displacement transducer - fissuremeter Art. No.: Model A=1, B=2, C=3 or D=4 Order ref.: Model, e.g.: GFD 200/2.5 or 200/5 Order ref.: Type, e.g.: GFD 150 or GFD 20

Technical data:

Inductive displacement transducer Meas. ranges nominal 2.5 / 5 mm Non-linearity ±0.3% f.s. Carrier frequency 2.4 kHz Nominal output signal 130 / 263 mV/V 98 / 102 mV/mm/V Sensitivity -45 °C up to +120 °C Temperature range Resolution of meas. value infinite Resolution of meas. values with manual standard recording devices 10⁻⁵ Further recording possibilities with automatic meas. device MFA 6 E or field measuring device Special models an request

Temperature sensor

Transducer	AD 590				
Supply	6 - 30 V DC, 1mA				
Current output	1 µA / K				
Absolute accuracy	±1°C at 25 °C				
Shielded meas. cable	standard PVC 100 CY				
6x0.5 mm², -30 °C up to +80 °C					
Special cable P120 6x0.5 mm ² -10 °C up to +120 °C					

Accessories

Change-over manifolds in groups of 5 / 10 / 20 and 30 measuring points

Subject to technical alterations.

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