GLÖTZL Baumeßtechnik

STEEL STRAIN GAUGES, VIBRATING WIRE TYPE

Maihak System

Type: GFVM 250/0.5 ES
Art.-No.: 66.80.02

- High measuring accuracy under rough conditions
- Long-term stability with high resolution
- Frequency measuring method, inured and robust
- Remote transfer with large-distance cables
- Well-proven and successfully used system

Ill.: Steel Strain Gauge with holding devices for assembling for welding, heavy type, basic distance 250 mm

Application

The Strain Gauge GFVM 250/0.5 ES is used for the measurement of strain and compression on girder constructions, sheet pile walls, bridges and other steel structures.

Description

Strain and compression which are occurring in steel structures are taken by the welded holding devices and transferred via the measuring body to the vibrating wire inside the gauge. Measuring basis is 250 mm and it is precisely adjusted by a thread.

For temperature measurement, the sensors are equipped with thermistors; alternatively equipment by PT 100 is possible.

The gauge is inured against bending and therefore robust.

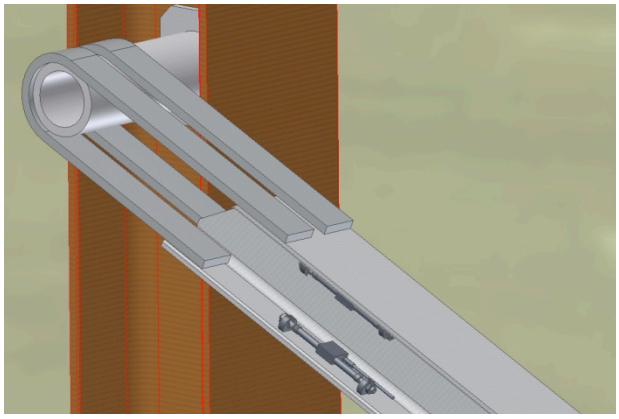
Connection of the measuring cable is usually made tight against pressurized water with a 2-components resin and it is equipped with a traction relief at the measuring cable. Additionally the measuring wire is protected by a protection tube against water intake.

Furthermore, the internal space of the sensor is sealed by plastic material.

Technical Data Type GFVM 250/0.5 ES

Meas. Range standard	2 x 10^{-3} (0,5 mm / 250 mm basis)
Meas. Range sectioning	ca. 50 % tension / 50 % pressure
Meas. Length standard / *optional*	250 mm
Elasticity modulus	22.000 N/mm²
Working frequency of the meas. wire	ca. 700....1.000 Hz
Measuring value resolution	< 0,02 %
Accuracy under calibration conditions FSO	< ± 1 %
Linearity under calibration conditions FSO	< ± 0,5 %
Coefficient of thermal expansion of the meas. wire	11,8 E 10^{-6}
Range of operating temperature	-20...+70 °C
Weight	ca. 0,8 kg
Temperature sensor standard / *optional*	thermistor / *PT100*

Installation Example



Subjekt to technical alterations

GLÖTZL Gesellschaft für Baumeßtechnik mbH · Forlenweg 11 · 76287 Rheinstetten · Germany
☎ +49 (0)721 51 66 - 0 · 🖷 +49 (0)721 51 66 - 30 · http://www.gloetzl.com · info@gloetzl.com