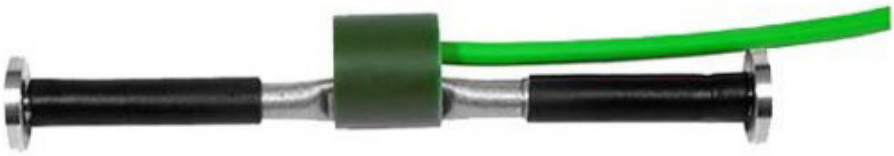
VIBRATING WIRE STRAIN GAUGES

Strain gauges for measuring stresses and deformations



The vibrating wire strain gauges are used to **measure the stress in load-bearing structures** or to **monitor the tensions in tunnel linings,** during tunnel excavation phases.

Such control is necessary for the **verification of the tensions and deformations** of both temporary and permanent retaining structures.

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The vibrating wire strain gauges consist of a stainless steel tube inside which a thin rope, secured at the two ends, is made to vibrate by an excitation coil. An internal thermistor detects the temperature.

The gauge can work both in tension and compression, and is also watertight and can be installed externally in stressed structures or embedded in concrete castings for stress

Technical features:

Material	Stainless steel;
Dimensions	Diameter 25 mm, length 150 mm;
Sensor type	A vibrating string;
Measuring range	+/- 1.500 με
Sensitivity	1 με
Repeatability	+/- 0.2% F.S.
Total accuracy	< 1% F.S
Internal thermistor	measuring range -20 ... + 80 ° C
Protection	IP68

Accessories:

- Pair of blocks for welding rods;
- Assembly model for blocks;
- Electric cable cut to size.