

BOREHOLE STRESSMETER

Description

Vibrating wire stressmeters for rock boreholes are designed to monitor stress changes within rock masses and can be installed in boreholes up to 30 m deep.

The instrument consists of a high-strength steel measuring ring, anchored to the borehole wall, and a tensioned vibrating wire arranged along the opposite diameter.

Stress variations change the wire tension and therefore its resonant frequency. The signal can be acquired with compatible portable readouts or dataloggers for accurate long-term monitoring.

Applications

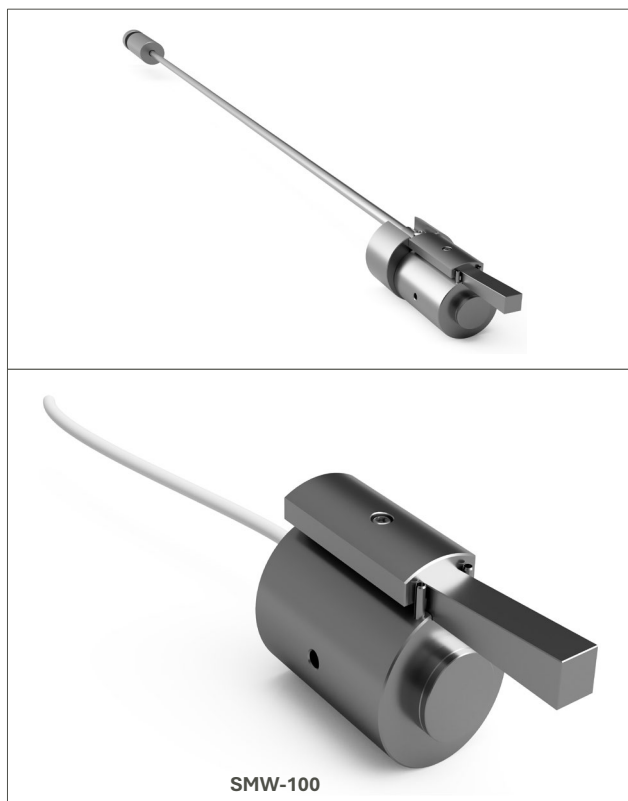
- Monitoring the stress state in rock masses
- Controls in tunnels, excavations and underground works
- Borehole geotechnical measurements down to 30 m depth

Features

- Vibrating wire sensor with steel measuring ring
- Installation in rock boreholes
- Output readable by portable readouts or dataloggers
- Robust structure for reliable long-term monitoring

Ordering information

CODE	PRODUCT DESCRIPTION
SMW-100	Borehole vibrating wire stressmeter



Technical specifications

Model	SMW
Measurement principle	vibrating wire
Field of use	rock boreholes
Installation depth	up to 30 m
Sensing element	tensioned vibrating wire
Measuring body	steel ring
Anchorage	to borehole wall
Output signal	resonant frequency
Acquisition	portable readout or datalogger
Applications	rock masses and underground works
Body material	high-strength steel

For more information:

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