



MODEL SME-2510

INSTRUMENTED ROCK BOLT

APPLICATIONS

The SME model Instrumented Rock bolt is designed to measure loads in :-

- Un grouted rock bolts.
- Tiebacks used to stabilize the ground around excavations.
- Tiebacks used in the support of retaining walls.

DESCRIPTION

SME model 2510 Instrumented Rock bolt is made by a vibrating wire strain gage inside a short length of standard threaded rock bolt or rebar. The rock bolt is installed in the normal manner, making sure that the strain gage remains located within the loaded part of the rock bolt. Strain in the rock bolt is converted to equivalent loads using calibration coefficients supplied with the equipment.



ADVANTAGES

The SME model Instrumented rock bolt is very robust and requires no special handling beyond normal care. Since the vibrating wire gage is completely recessed inside the rock bolt, it can be left exposed and unattended for long term monitoring. The single vibrating wire strain gage is located along the axis of the rock bolt which provides long term stability and accuracy.

TECHNICAL SPECIFICATIONS

Standard Range	:	2500µ€ , equivalent to around 27,215 kg in a 25mm diameter bolt.
Accuracy	:	±1% FSD standard.
Resolution	:	0.01%fsd
Bolt Sizes	:	25mm diameter.
Length	:	300mm standard.



Due to continuous development program the specification and dimensions are subject to change without notice. Our engineers do undertake the work for development as per the customer's requirement.

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