

Sonic Probe Extensometer Anchors

High Resolution Displacement Monitoring
for Roadway and Pillar Studies

Highly accurate 20 position extensometer

7.5m length

Accuracy 0.1mm

No grouting required

Range of Hole sizes

Easy to Install

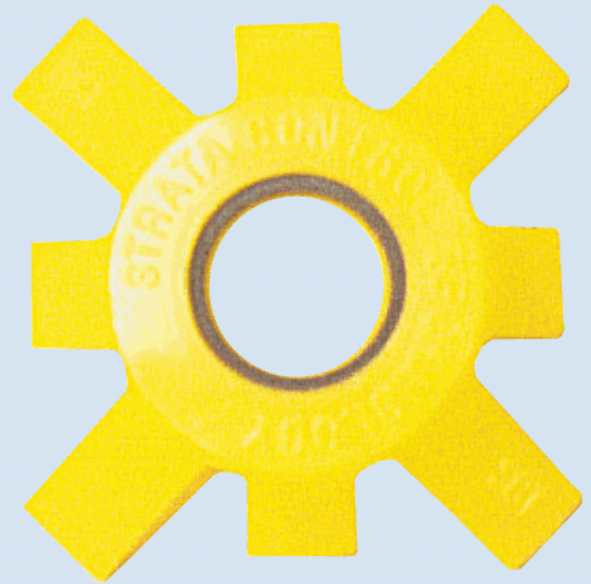
Analysis software available

Multi-point (maximum 20 position) sonic probe extensometers are used to accurately monitor the behaviour of the mine roadway throughout the mining cycle.

These instruments can permit the monitoring of movement in the roof, floor or side of the roadway by measuring the displacement of magnetic anchors placed within the roadway strata. These anchors can be placed in up to 20 locations along a 7.5-8.0m hole and measured to an accuracy of 0.1mm.

The high number and dense spacing of anchor positions allow a high definition of the zones of deformation within the strata.

The extensometer assembly would typically be installed at the face of the roadway and monitored during initial face advance, subsequent extraction stages and with time.



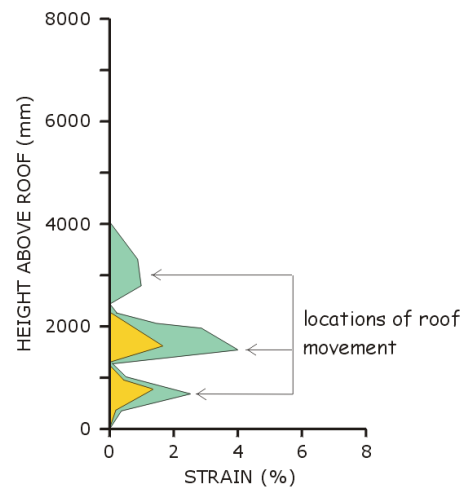
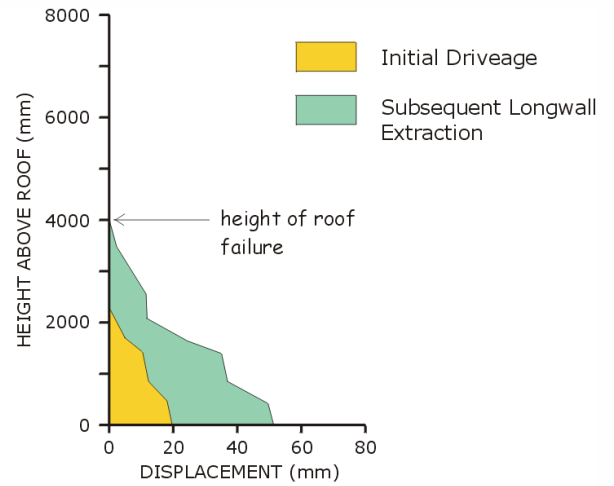
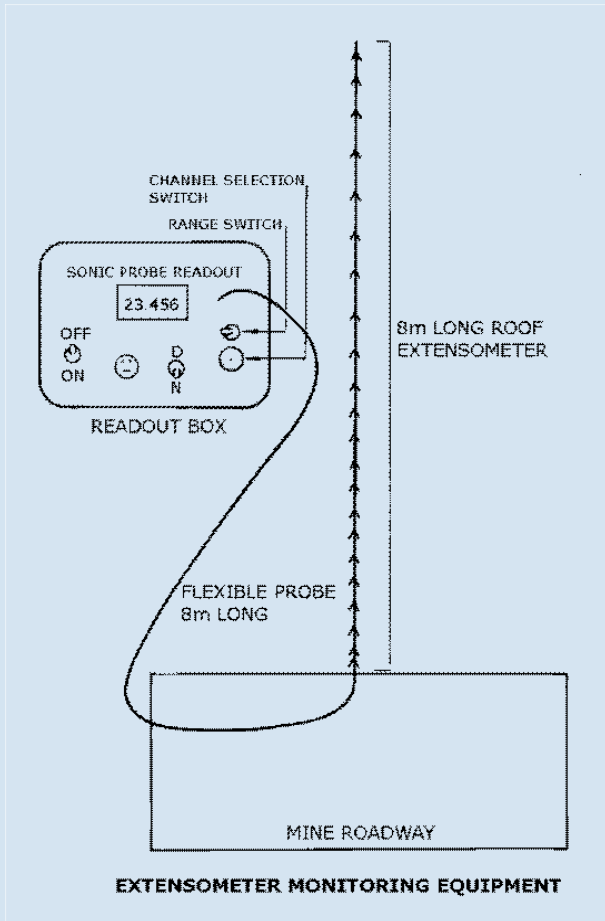
Extensometers are used to measure:

- ◆ magnitude of strata movement
- ◆ locations of strata movement
- ◆ height of roof failure or strata softening
- ◆ depth of failure of roadway sides

Services to the Mining Industry



Results



TYPICAL EXAMPLE OF ROOF BEHAVIOUR FOR DIFFERENT MINING STAGES MEASURED USING AN EXTENSOMETER



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