

NEW “SENTINEL” INTEGRITY MONITORING ROCKBOLT

The “**Sentinel**” Integrity Monitoring Rockbolt is a new concept in rockbolting safety from Rock Mechanics Technology (RMT). The “**Sentinel**” is a modified AT rockbolt which can signal to the Mine Rockbolting Engineer whether it is broken and, if so, where.

Bolt failure can occur due to overloading and / or corrosion and when it occurs it can be difficult to detect.

RMT recommend that a row of “**Sentinel**” bolts is placed across the tunnel at regular intervals as substitutes for the standard rockbolts. The exact spacing would depend upon local circumstances.

An installed “**Sentinel**” bolt is read by inserting a simple probe connected to an IS strain meter into an environmentally protected sleeved socket at the end of the bolt. The strain meter reading provides a clear indication of the bolt integrity.

The “**Sentinel**” has undergone extensive testing prior to release. When used in conjunction with Dual Height Telltales, the “**Sentinel**” provides added confidence in the installed rockbolting system.


Rock Mechanics Technology Ltd, are committed to bringing to the industry the instrumentation and expertise necessary to ensure continued safe use of rockbolting in mines.



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