



THE SCRIBE

RF Signal Strength Monitoring



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RF SIGNAL STRENGTH MONITORING

THE SCRIBE has been designed to assist in logging the Radio Frequency (RF) signal being received from a Mine Winder Conveyance, in order to give site personnel the ability to detect low RF signal conditions without the need to have specialised test equipment and specialist personnel on site.

SAVING TIME AND MONEY

THE SCRIBE can avoid expensive winder downtime during instances such as unscheduled aerial repair, realignment or rudimentary fault-finding.

The ability of importing the data into Supervisory Control and Data Acquisition packages (SCADA) also allows for tolerance alarming in the event of an expected RF signal vary from Mine prescribed pre-set datum levels for a given location.

The RF signal, received by the device, is converted and provided as an analogue 0 - 5 V DC output to the winder control PLC.

In order to capture the RF spread of a typical winder's SMS transmission throughout a shaft or drift, the new SCRIBE device has been ranged typically over 60 dBm sweep.

As most installations rarely have signals higher than -40dBm or lower than -100dBm, this spread will enable the capture of the total distance-travelled signal plot for the majority of installations



TYPICAL APPLICATIONS

- Mine Drift Winders
- Mine Shaft Winders
- Shaft Sinking Winders

PRODUCT SPECIFICATIONS

The accuracy of THE SCRIBE is better than 1dBm.

The device can be manufactured to operate in one of the following frequency bands:

- 150 - 175 MHz (current band)
- 410 - 520 MHz (special order)
- 820 - 960 MHz (special order)
- Specific frequency (serial) programmable within the manufactured band

TECHNICAL SPECIFICATIONS

- Input: -40 to -100 dBm
- Output: 0 - 5 VDC
- Power Supply: 16 - 32 VDS (@max 2Watts)

CONNECTIONS

- RF Input: TNC female
- Signal (DC) Output: SMA Female
- Power supply: SMAR Female
- Programming interface: Serial RS232 (frequency setting)



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