

SIMOCO SRP9100
Series Portable
Radios Accessories
MANDOWN RSM

SRP-MDRSM

MANDOWN REM SPK MIC

Designed to provide a lone worker with a "guardian angel" should they fall, suffer a medical mishap, or, be attacked - Our Mandown Remote Speaker Microphone helps provide a safer and more secure working environment.



A microcontroller constantly monitors the position of the user. Should the Microphone stay in a position of greater than 60° off upright for longer than 15 seconds, a low-level warning will sound a further 10 seconds. If, not held upright, Lone Alert will then cause the radio to send a warbling Alarm Tone over the radio channel or trunked talkgroup every 2 minutes.

Systems Operation

Require more advanced operation? SRP-MDRSM can also make use of the inherent FFSK signalling capabilities of the SRP9100 radios. This can include: use of Unit ID signalling to identify the user under duress, or, triggering of Emergency operation.

"Deadman" Operation

"Deadman" models are available that require the user to also press the "panic" button at < 15 minute intervals to prevent alarm activation.



APPLICATION NOTES.

Integrated within the SRP9100 conventional radios is the standard ability to generate Unit ID via signalling. For those requiring Unit Identification to accompany the Man Down alert, then this can be achieved by simply enabling PTT ID on the radios programming. Whenever a Mandown Alarm is triggered, a fixed control station/ or another Portable/ Mobile with Unit ID decode capability will display the unit's identification while the Audible Alarm is heard thru the speaker. In trunked systems, this same capability is available but requires the use of typically more sophisticated PTT UNIT ID display consoles.

What if I want Emergency Mode Operation?

Depending on how the portable is programmed, triggering an Emergency can cause a number of different Alarm sequences to occur including changing channels/ talkgroups.

The SRP-MDRSM is able to enhance this operation by triggering this Emergency operation.

Special Note: For Trunked system operation the SRP-MDRSM assumes a talkgroup has been allocated for audible transmissions within 1 sec. if this does not occur then the 'Audible Alert tone may not be heard.

What are the Alarm time sequences?

Alarm triggered- wait time -15 seconds
Alarm Pre-Alert time - 10 seconds
Emergency alarm output - 500mSec
PTT ground/Tx audio alarm - 3/2 seconds
Alarm repeat - 2 minutes

How much battery drain?

SRP-MDRSM uses an extremely low power microcontroller and draws negligible current during standby operation. When Alert tones are sounded it draws up to 50mA from the radios battery.

Does the unit contain mercury?

SRP-MDRSM uses a non-toxic sensor and thus helps provides improved safety.

What if I need Deadman Operation?

SRP-MDRSM units can be purchased with Deadman capability. In addition to providing all standard capabilities, the Deadman facility requires that, the user must press their RSM/ PTT button, or, to momentary press the Panic switch once every 15 minutes. Failure to do so will cause the Alarm sequence to be initiated. If triggered the user should turn off the radio to reset the Alarm.

How Does the Panic Switch work?

Pressing the Panic switch on the SRP-MDRSM Unit for 2 seconds causes one alarm cycle to occur.

Use on busy trunked systems?

Use on busy trunked systems is not recommended if, you require the Audible Alarm to be heard on the voice talkgroup.

The unit sends the Alarm tone for 2 seconds and assumes a talkgroup is allocated within a second of grounding the radios PTT.

Use careful considered engineering evaluation prior to field deployment.

SRP-MDRSM FEATURES.

Noise Cancelling Directional
Trunked or Conv. Operation

IP68 waterproof Housing

Use with 3.5mm earpieces

10 sec warning pre-alert tone

Low current consumption

Non-mercury (non-toxic) sensor

Hi/Lo Spk Volme Switch

Tough resilient cables

Panic Alarm button

Other SRP9100 Accessories

Battery Chargers:



Single
Pocket
Charger

Two Pocket
Charger

Six Pocket Charger
Six pockets provided, to charge
either batteries, radios or a
mixture of the two



Batteries:

- NiCad (1600 mAh)
- NiMh (2100 mAh and 2700mAh)

Audio Accessories:

Speaker
Microphone



Medium
Duty Microphone



Headset



Other Accessories:

- Leather carrying cases