



3M™ Scott™ SEMS II Electronic Management System



Question

What is a mobile mesh network?

Answer

A mobile mesh network is a network that is setup remotely and is as mobile as its users. The mesh network uses each SEMS II accountability system equipped SCBA as a repeater to ensure that the network stays connected and increases your range to over four miles as a single SCBA can make 10 jumps through other SCBA as it communicates with the base station.

Question

What does self-healing/repairing mean?

Answer

A self-healing mesh network will allow each transmitter to automatically find the best path to the base station, resulting in less out of range warnings and reduced “breaks” in the mesh network.

Question

What is the benefit of the Scott mobile mesh network as it relates to firefighter accountability?

Answer

Our mobile mesh network is self-repairing and each SCBA is a repeater. The benefit is increased range, bi-directional communication that works in locations that standard land mobile radios may not. The SEMS II also provides documentation of events monitored by the base command software.

Question

Does the frequency and power of the transmitter require a FCC license to be maintained by the fire department?

Answer

No, we use a 2.4 Ghz ISM (Instrumentation) band frequency and the power level at this frequency does not require the end user to maintain an FCC license for this system. The range of this transmission allows you stay connected with SEMS II accountability system equipped SCBA for up to 3,500 ft and can connect at distances up to 3,000 ft.

Question

Does programming the SCBA with the firefighters name require special hardware?

Answer

Yes, if you intend to have personal accountability an RFID card is required for each user and an RFID card programmer will also be needed.

Question

Can I upgrade my existing Scott SCBA electronics to SEMS II accountability system?

Answer

Yes, SEMS II accountability system can be added to any existing Scott SCBA that meets NFPA 1981, 1997 edition standard or newer. In order to add the SEMS II to 1997 or 2002 compliant SCBA, you will need to upgrade the SCBA to NFPA 1981, 2007 edition. Users that already have SCBA compliant with NFPA 1981, 2007 edition can simply change the console and update the SCBA software if needed.

Question

I already have an evacuation SOG/SOP why do I need the SEMS II accountability system?

Answer

Does your SOP have a way of confirming that personnel in the building acknowledged or even received the evacuation command? The SEMS II accountability system monitors and logs the evacuation command and logs acknowledgments of evacuation, PASS, withdraw (self-evacuation), and low air.

Question

What is the range of the SEMS II system?

Answer

The range from the base station to a single SCBA is about 3000 ft. line of sight.

Question

What does the Scott SEMS II accountability system document?

Answer

The SEMS II system will automatically log the following information for users that have been accepted onto the base station the date and time of:

- User acceptance to the base station
- Low air alarms
- PASS alarm from the SCBA
- Base station acknowledgement of PASS
- Evacuation command from the base station
- SCBA user acknowledgement of evacuation
- User assignment and assignment changes
- Withdraw alarm from the SCBA
- Base station acknowledgement of the withdraw alarm
- User log off of base station
- The system will also document user input such as:
- Incident commander name
- Incident name
- Incident location (street, city, state and postal code)
- Incident notes

Question

What are the requirements for my PC to run the SEMS II base command software?

Answer

- a. Windows® XP Pro Service Pack 2 or Windows Vista Service Pack 1 (32 Bit).
 - b. 1.6GHz Processor
 - c. 1 GB RAM
 - d. 500MB available hard drive space
 - e. CD-ROM Drive (for installation)
 - f. Available PCMCIA slot (for SEMS II gateway radio)
 - g. Available USB port (for RFID card programmer)
 - h. Screen display of 1024 × 768
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Question

Does the SEMS II accountability system provide a means of bi-directional communication with the SCBA user?

Answer

Yes, the SEMS II accountability system provides two way communication. When the Incident Commander/ Accountability Officer selects evacuation, the SEMS II accountability system user interface provides indications of successful signal receipt by the user's SCBA and user acknowledgment of the evacuation, as well as documenting each of the events. The SEMS II accountability system also notifies the downed fire fighter when the Incident Commander or Accountability Officer acknowledges the activation of the PASS device and provides a means for self evacuation/withdrawl.

Question

How do I know if this system will work for me?

Answer

Contact your local Scott Representative, Regional Manager or Scott Inside Sales department to set up a demonstration. You can contact Scott at 800-247-7257.

Question

What is the latest version of SEMS II software?

Answer

The latest version of software is version 1.18.

Question

What has been updated with this new version?

Answer

We have made several improvements including:

- Made it easier for the system operator to add non-SCBA wearing users
 - Included an import and export function to make it easier to transfer setup parameters to multiple computers.
 - Added import roster function so you may easily upload a list of department personnel.
 - Added multiple language support.
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Question

How should I deploy a repeater?

Answer

Building construction varies so deployment procedures should consider these differences, but our testing has indicated that stairwell deployment provides the longest distance between repeaters and on many situations a repeater is capable of covering up to 10 floors or more.

Question

Does the USB Gateway work with my existing SEMS II software?

Answer

The USB Gateway will only work with software 1.18 and this version of software is included with the USB Gateway.

Question

Does the USB work with my existing SEMS II SCBA?

Answer

Yes, the USB gateway and existing SEMS II SCBA work with software version 1.18.

Question

How do I update my SEMS II software?

Answer

Simply uninstall your current SEMS II version and follow the installation procedures for the SEMS II software.

Question

Will installing my SEMS II software delete all of my existing incident data?

Answer

No, the database is protected during the uninstall process and your data will remain available to you once you have installed the new version.

Question

What is the purpose of the SEMS II Repeater?

Answer

The SEMS II mobile mesh network is very powerful, but in certain urban high rise and long range wild land conditions, there may be times when a repeater is necessary.



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