



SCOTT ELECTRONIC MANAGEMENT SYSTEM -- SEMS™
USER ACCOUNTABILITY SYSTEM
FOR THE SCOTT AIR-PAK® 2.2 / 3.0 / 4.5 / FIFTY
SELF-CONTAINED BREATHING APPARATUS



FIGURE 1

WARNING

THE SCOTT SEMS USER ACCOUNTABILITY SYSTEM IS INTENDED FOR USE WITH SCOTT SELF-CONTAINED BREATHING APPARATUS (SCBA) WHICH MAY SUPPORT HUMAN LIFE IN HAZARDOUS ATMOSPHERES. FAILURE TO CAREFULLY READ AND UNDERSTAND THE FOLLOWING INSTRUCTIONS MAY RESULT IN SERIOUS INJURY OR DEATH TO THE SCBA USER.

USE OF A RESPIRATOR INTEGRATED WITH THE SEMS USER ACCOUNTABILITY SYSTEM WILL REQUIRE MODIFICATION OF THE RESPIRATOR "REGULAR OPERATIONAL INSPECTION PROCEDURES" AND WILL REQUIRE TRAINING OF THE RESPIRATOR USER IN THE USE OF SUCH RESPIRATORS.

THE FOLLOWING INSTRUCTIONS SUPPLEMENT BUT DO NOT REPLACE THE OPERATING AND MAINTENANCE INSTRUCTIONS SUPPLIED WITH EACH RESPIRATOR.

WARNING

READ AND UNDERSTAND THIS COMPLETE INSTRUCTION MANUAL BEFORE USING A RESPIRATOR EQUIPPED WITH A SEMS ACCOUNTABILITY SYSTEM. FAILURE TO USE THE SEMS ACCOUNTABILITY SYSTEM IN ACCORDANCE WITH THESE INSTRUCTIONS MAY LEAD TO CIRCUMSTANCES WHICH COULD RESULT IN SERIOUS INJURY OR DEATH.

DESCRIPTION

The SCOTT Electronic Management System (SEMS) provides a method of communication between respirator users in a hazardous area and a designated person outside of the hazardous area. The SEMS equipment consists of individual Portable Units attached to the SCOTT AIR-PAK models 2.2/3.0/4.5/*Fifty* self-contained breathing apparatus (SCBA) and a Base Station which transmit and receive specific information between the respirator users and the Base Station operator. The specific information consists of user identification and status as well as alerts for evacuation. Complete training in the use of the SEMS equipment is required before actual use in a hazardous environment.

The Portable Unit is integrated into the Scott AIR-PAK SCBA as a part of the remote air pressure gauge which hangs over the right shoulder of the respirator user. The Portable Unit also functions as the Control Console for the PAK-ALERT EMS distress alarm personal alert safety system (PASS) installed on the respirator backframe. The Portable Unit has a set of status lights, a four character digital display, a dial air pressure gauge, and three control buttons which can easily be pressed with gloved hands. Power is supplied by batteries in both the Portable Unit and in the PAK-ALERT EMS distress alarm battery compartment. The Base Station is a compact battery operated device that can be tripod mounted or carried by a strap. A digital display provides information about status of the respirator users who are logged onto the Base Station. Simple dedicated function buttons control the transmission and receipt of signals with the respirator users. The Base Station can be easily interfaced with a computer for programming and advanced applications.

When a respirator user opens the cylinder valve and begins use of an AIR-PAK SCBA equipped with the SEMS Portable Unit, the Portable Unit will automatically begin to operate. If the Base Station is present at time of entry, the Portable Unit must log-in with the Base Station before entry into the hazardous area. Contact between the Portable Unit and the Base Station will continue until the respirator user terminates use of the SCBA.

Each installation of SEMS equipment operates as a distinct set of Portable Units and Base Station that transmit and receive on a single frequency. If another installation of SEMS equipment is used in the same area, the operation of each group will remain discreet and separate between Portable Units and Base Stations. The SEMS equipment operates between 453.0375 and 465.6375 MHz on radio channels defined in FCC Title 47 (Telecommunications) Part 90 section 20, Limitation (27) and requirement Part 90.238. Programming of the Portable Units and Base Station is essential and must be performed prior to training and use. See SEMS Programming Guide, Scott P/N 89506-01 for complete details of programming the SEMS equipment.

WARNING

NO PERSONAL ALERT SAFETY SYSTEM, RESPIRATOR OR COMBINATION OF PERSONAL ALERT SAFETY SYSTEM AND RESPIRATOR, BY THEMSELVES, CAN PROVIDE COMPLETE PROTECTION IN FIRE SITUATIONS. HOWEVER, USING AN ALARM AND A RESPIRATOR IN ACCORDANCE WITH THE REQUIREMENTS OF AN ORGANIZED RESPIRATORY PROTECTION PROGRAM IS ONE OF THE MANY SAFETY PRECAUTIONS WHICH SHOULD BE TAKEN TO AVOID PERSONAL INJURY OR DEATH.

FCC NOTICE

This equipment has been tested and found to comply with the requirements of United States Federal Communications Commission, Code of Federal Regulations, FCC title 47, part 90 Section 20, limitation (27) and requirement Part 90.238 over frequency range 453.0375 to 465.6375 MHz, as well as FCC Section 1.1310 for Occupational/ Controlled Exposure limits.

If the SEMS Base Station or Portable Unit has been damaged, DO NOT use this equipment. Maintenance or repair of this equipment must only be performed by an authorized SCOTT service center. Unauthorized service may void the manufacturers warranty and may cause damage to the equipment. Use only Scott authorized accessories, cables, and power connectors. Consult the operating and service manuals for instructions on battery replacement, battery maintenance, and use of accessory cables.

ELECTROMAGNETIC ENERGY (EME) EXPOSURE

The SEMS Base Station and Portable Unit are designed to comply with the FCC guidelines regarding exposure of human beings to radio frequency electromagnetic energy.

Use only the supplied or an approved replacement antenna on the Base Station. DO NOT touch or hold the Base Station antenna when the POWER is "ON". Holding the antenna may affect transmission and reception quality or may cause the radio to operate at a higher power level than allowed by the FCC. Maintain a distance from your body to the antenna greater than 1.5mm / 1/16th inch while the Base Station is in use. Any unauthorized antennas, modifications, maintenance, or attachments could damage the Base Station and may violate FCC regulations. DO NOT use the Base Station if the antenna has been damaged. If the antenna has been damaged, remove the equipment from service and tag for repair by authorized personnel.

The SEMS Portable Unit antenna is located inside the case. The case is designed to retain the antenna and maintain a distance greater than 1.5mm / 1/16th inch from the users body at all times. DO NOT operate the Portable Unit with the cover removed. Any unauthorized antennas, modifications, maintenance, or attachments could damage the Portable Unit and may violate FCC regulations.

Use of the SEMS Base Station and Portable Unit outside the country where it was distributed may be subject to government regulations and may be prohibited.

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BASIC FUNCTIONS OF THE SEMS EQUIPMENT

The SEMS equipment has two primary functions:

- Evacuation Signal
- Distress Signal

1. The Evacuation Signal is sent from the Base Station to the Portable Units. It can be handled one of two ways:
 - a) All-Call Signal: The Base Station will send a signal to all portable units logged on to it. When received, the Portable Unit will display "EVAC" and sound an audible signal. Every respirator user must acknowledge this signal by pressing *twice* the RESET button on the Control Console. Display will continue to read "EVAC" until user leaves hazardous area and shuts down the respirator.
 - b) Selective Evacuation Alarm The Base Station will send a signal to only one individual unit logged on to it. When received, the Portable Unit will display "EVAC" and sound an audible alarm. The selected respirator user must acknowledge this signal by pressing *twice* the RESET button on the Control Console. Display will continue to read "EVAC" until user leaves hazardous area and shuts down the respirator.
2. The Distress Signal is joined to the PAK-ALERT EMS distress alarm operation. The Portable Unit will send a signal to the Base Station when the PAK-ALERT EMS distress alarm goes into full alarm. Activation of the full alarm can be either by manual activation of the user or by automatic activation from lack of user movement for the time period set on the PAK-ALERT distress alarm. Once acknowledged by the Base Station operator, "PASS" will appear on the Portable Unit display.

Other additional functions include:

1. The Contact Signal is an automatic signal sent by the Base Station to every Portable Unit that is logged in to the Base Station. Any respirator user who does not return an acknowledgment to the Contact Signal within 120 seconds will be shown on the Base Station as "OUT OF RANGE."
2. Air supply cylinder levels are monitored by the Portable Unit and the Base Station. The user can press and hold the RESET button at any time for a digital display of the remaining air supply cylinder pressure. The approximate cylinder pressure is displayed. The user receives a "½ AIR" warning in the display with an audible alarm when the cylinder reaches one-half of full pressure. The user also receives a "LOW AIR" warning in the display with an audible alarm when the cylinder reaches one quarter of full pressure. The "LOW AIR" warning is also transmitted to the Base Station. The "LOW AIR" alarm will continue to operate until the respirator is shut down.
3. Users can inform the Base Station that they are withdrawing from the hazardous atmosphere by pressing and holding the "WITHDRAW" button on the Portable Unit for at least two seconds. The display will read "W-D" until the user leaves the hazardous area and shuts down the respirator.

PROGRAMMING

Before SEMS equipment can be put into service, the Base Station and each Portable Unit must be programmed to work with each other. The amount and detail of the information programmed in will depend on the requirements of the organization using the SEMS. At a minimum, the equipment must be setup so that the Base Station will recognize each Portable Unit in the group and associate an identity of the respirator user with the Portable Unit. In this way, specific users who have entered a particular region of the hazardous area can be contacted individually to evacuate to a safe atmosphere. In addition, if a Portable Unit transmits a DISTRESS SIGNAL, the Base Unit will display the identity of the respirator user. See SEMS Programming Guide, Scott P/N 89506-01 for complete details of programming the SEMS equipment.

REGULAR OPERATIONAL INSPECTION

When installed on a Scott SCBA, inspection and test of the Scott SEMS Portable Unit is to be conducted along with inspection and test of the respirator and the PAK-ALERT EMS distress alarm before each use. To do this, the REGULAR OPERATIONAL INSPECTION procedures in your respirator instructions will require modification. The instructions below are to be added to the instructions for REGULAR OPERATIONAL INSPECTION of your respirator. If, during the inspection any malfunction of the respirator or the SEMS Portable Unit is noted, remove the respirator from service and tag for repair by authorized personnel.

1. While performing the visual inspection of the respirator inspect all SEMS Portable Unit enclosures, lenses, and wire conduits for cracks, wear or other damage. If damage is noted, remove respirator from service and tag respirator for repair by qualified personnel.
2. Check the operation of the PAK-ALERT EMS distress alarm in accordance with the REGULAR OPERATIONAL INSPECTION defined in the user instruction for the PAK-ALERT EMS distress alarm installed on your SCBA. All standard function of the PAK-ALERT EMS distress alarm must operate properly.
3. With an operating Base Station, verify that the SEMS Portable Unit initializes and logs-in to the Base Station. When testing the PAK-ALERT EMS alarms, verify that the Portable Unit and Base Station are communicating with each other properly.
4. Verify that the batteries are properly installed and that there is no "BATT" indication on the display.
5. Send an "EVAC" signal to the Portable Unit and check the response. Verify that both the ALL-CALL and the Selective Evacuation signals are properly received by the Portable Unit.
6. When testing the "LOW AIR" alarm operation, verify that the proper signal is transmitted to the Base Station.

On a regular basis established by your respiratory protection program, each SEMS Base Station must be inspected and tested for proper operation. Each of the functions defined in the USE OF THE SEMS BASE STATION section of this instruction must be checked and verified to be operating properly. If any malfunction is found, remove the Base Station from service and tag for repair by authorized personnel.

WARNING

FOLLOW REGULAR OPERATIONAL INSPECTION PROCEDURE EXACTLY. IF THE SEMS PORTABLE UNIT OR BASE STATION DOES NOT OPERATE AS DESCRIBED OR IF ANY OTHER OPERATIONAL MALFUNCTION IS NOTED, DO NOT USE THE RESPIRATOR. USE OF A MALFUNCTIONING RESPIRATOR MAY RESULT IN SERIOUS INJURY OR DEATH.

WARNING

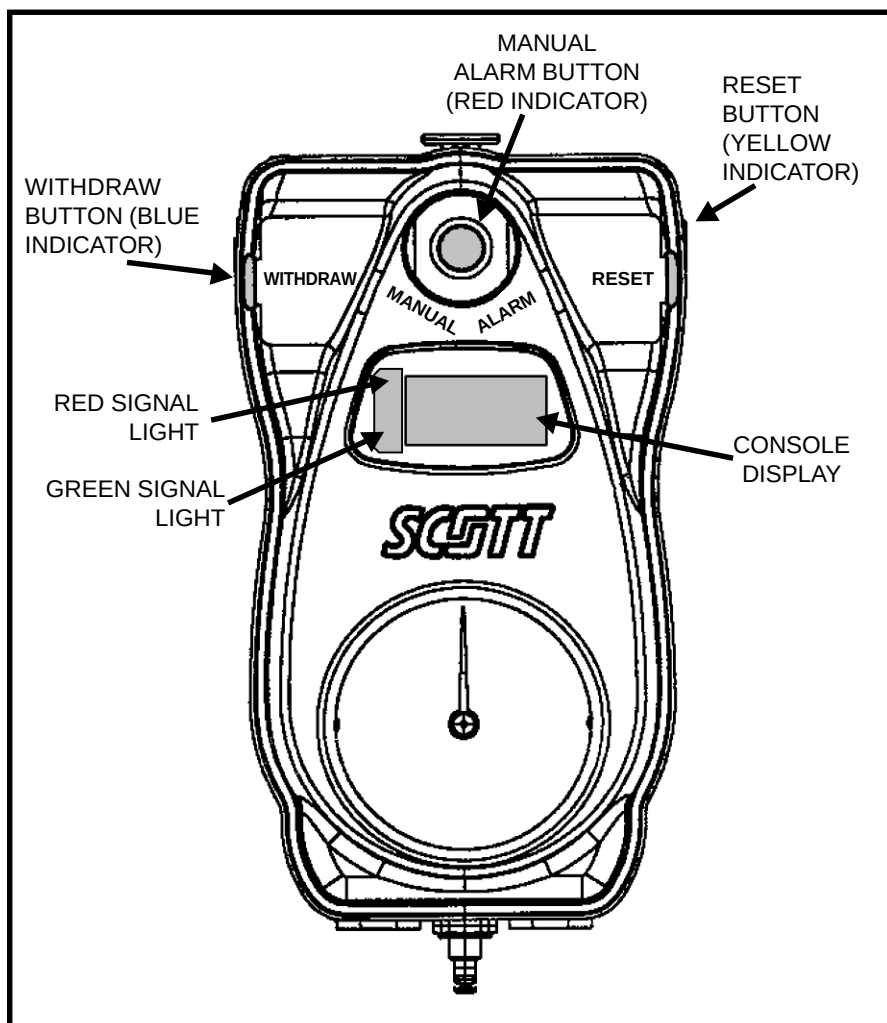
IF THE LOW BATTERY INDICATION OCCURS AT ANY TIME DURING REGULAR OPERATIONAL INSPECTION, DO NOT USE THE RESPIRATOR. CHANGE ALL BATTERIES IMMEDIATELY AND REPEAT THE REGULAR OPERATIONAL TEST OR TAKE THE RESPIRATOR OUT OF SERVICE UNTIL THE BATTERIES ARE CHANGED AND THE REGULAR OPERATIONAL TEST IS SUCCESSFULLY PERFORMED. USE OF A RESPIRATOR WITH DEPLETED BATTERIES MAY LEAD TO A FAILURE OF THE RESPIRATOR WHICH COULD RESULT IN SERIOUS INJURY OR DEATH.

WARNING

THE INFORMATION BELOW IS MEANT TO SUPPLEMENT, NOT REPLACE, THE INSTRUCTIONS, TRAINING, SUPERVISION, MAINTENANCE, AND OTHER ELEMENTS OF YOUR ORGANIZED RESPIRATORY PROTECTION PROGRAM. SEE WARNING ON FIRST PAGE OF THIS DOCUMENT.

USE OF THE SEMS PORTABLE UNIT

Users of SCOTT respirators equipped with the SEMS Portable Unit must be fully trained in the operation of the equipment as part of a complete respiratory protection program before entering a hazardous environment.



**FIGURE 2
THE PORTABLE UNIT**

WARNING

USERS OF RESPIRATORS EQUIPPED WITH THE SEMS PORTABLE UNIT MUST BE AWARE OF THE PROPER OPERATION OF THE EQUIPMENT. FAILURE TO RECOGNIZE A MALFUNCTION OF THE SEMS PORTABLE UNIT AND TAKE PROPER CORRECTIVE ACTION MAY RESULT IN SERIOUS INJURY OR DEATH.

WARNING

USERS OF RESPIRATORS EQUIPPED WITH THE PAK-ALERT EMS DISTRESS ALARM MUST BE AWARE OF THE PROPER OPERATION OF THE DISTRESS ALARM. IF THE GREEN LIGHT IS NOT FLASHING NORMALLY, OR IF THE UNIT EXHIBITS ANY OTHER SIGNS OF A MALFUNCTION WITHOUT THE USER TAKING PROPER CORRECTIVE ACTION, EMS MAY LEAD TO CIRCUMSTANCES THAT RESULT IN SERIOUS INJURY OR DEATH.

1. Start-up
 - a) Use of the SEMS Portable Unit begins when the user opens the cylinder valve on the respirator to start respirator usage. The unit will sound three chirps to indicate activation.
 - b) After a brief start-up sequence of less than ten seconds, the green light in the Portable Unit display will flash to indicate operation of the Portable Unit. An alert tone, a "BE-doop" to indicate the system activity, is used for several functions. Whenever the alert tone occurs, the user should look at the Portable Unit display for information.

2. Initialization and Range
 - a) After the start-up sequence, the Portable Unit will send an Initialization signal to the Base Station to log in. The Base Station will respond by showing "ACK" for the identity assigned to that Portable Unit.
 - b) If the respirator user moves too far from the Base Station after logging-in, the Portable Unit will begin to display "RNGE" indicating out of range until the user moves back into the Base Station field of operation (up to one-half mile line-of-sight).
 - c) If the Portable Unit is too far away from the Base Station at start-up, or if the Base Station is not powered up, the Portable Unit display will read "RNGE" right from start-up and not be logged into the Base Station. The Portable Unit will continue trying to log-in to a Base Station until one comes into range or is powered up.
 - d) Except for those functions which involve communication with the Base Station, all other functions of the Portable Unit and PAK-ALERT EMS distress alarm are still operational when the Portable Unit is either out of range or not logged into a Base Station.
3. Air Supply Cylinder Pressure
 - a) To check the air supply cylinder pressure, the user must press and hold the RESET button on the Portable Unit. The approximate pressure remaining in the cylinder will be shown in the display as PSIG.
 - b) When the cylinder reaches one-half of full pressure, the alert sound will occur and the Portable Unit will display "1/2 AIR" for ten seconds.
 - c) When the cylinder reaches one-quarter of full pressure, the alert sound will occur and the Portable Unit will display "LOW AIR". A low air signal will be sent to the Base Station within ten seconds. This end of service time indicator (EOSTI) alarm cannot be silenced by the user until the user leaves the hazardous area and shuts down the respirator. The Base Station operator must press "ACK" on the Base Station to acknowledge the user's low air signal.
4. Distress Alarm
 - a) If the user is in distress or becomes immobile, the PAK-ALERT EMS distress alarm will operate in conjunction with the Portable Unit. If the distress alarm is activated, either by the user pressing and holding the MANUAL ALARM for at least two seconds, or from the user being immobile for the required time duration, the Portable Unit will send a distress signal to the Base Station. The distress alarm will override all other messages and actions of the Portable Unit.
 - b) When the Base Station acknowledges the user's distress signal by pressing the "ACK" button on the Base Station, the Portable Unit will respond by displaying "PASS" and continuing to sound the distress alarm on the respirator. The distress alarm will continue until the user shuts down the respirator.

WARNING

THE RESPIRATOR USER MUST IMMEDIATELY LEAVE THE AREA REQUIRING RESPIRATORY PROTECTION WHEN AN END OF SERVICE INDICATOR ALARM ACTUATES. ACTUATION OF AN END OF SERVICE INDICATOR ALARM WARNS THAT APPROXIMATELY 25% OF FULL PRESSURE REMAINS IN THE AIR SUPPLY CYLINDER (THAT IS, APPROXIMATELY 3/4 OF THE TOTAL AIR SUPPLY HAS BEEN USED). A DELAY IN LEAVING THE AREA AFTER ALARM ACTUATION MAY RESULT IN SERIOUS INJURY OR DEATH.

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5. Evacuation

- a) If the respirator users are required to leave the hazardous area, the Base Station operator can send an evacuation message to the Portable Units of logged-in respirator users. This message can be sent either to all logged-in users or to selected logged-in users as chosen from the list on the Base Station.
- b) The Portable Unit will emit the alert sound and "EVAC" will appear flashing in the display.
- c) When an "EVAC" message appears on the Portable Unit display, the respirator user must press *twice* the RESET button on the Portable Unit to respond to the evacuation message. "EVAC" will continue to appear in the display of the Portable Unit until the user leaves the hazardous area and shuts down the respirator.

6. Withdraw

- a) The respirator user may choose to leave the hazardous area. Pressing and holding the WITHDRAW button on the Portable Unit will send that message to the Base Station.
- b) When the Base Station receives a user withdrawal message, the operator presses the "ACK" button on the Base Station to respond.
- c) When the Portable Unit receives the acknowledgment response, the Portable Unit will display "W-D" until the respirator user leaves the hazardous area and shuts down the respirator.

7. Batteries

If the any of the batteries on the respirator needs replacement, the equipment will indicate as follows:

- SENSOR MODULE – The PAK-ALERT EMS will sound a single audible chirp from the sensor module once every 2 seconds and the green light on the control module will not flash.
- CONTROL CONSOLE – "BATT" will appear in the display but all other functions of the SEMS Portable Unit will operate normally.

If any low battery condition appears at start-up, immediately change the batteries before use of the respirator. If a low battery condition appears while the respirator is in use, the equipment will continue to operate for a period of time greater than the longest duration cylinder available for the respirator, but the batteries must be changed before the next use of the respirator. Refer to the battery changing instructions included in the PAK-ALERT EMS distress alarm user instructions provided with your respirator.

8. Shutdown

- a) After leaving the hazardous area and confirming that respirator use is no longer required, doff the respirator according the user instructions provided with the respirator.
- b) Close the cylinder valve.
- c) Press the RESET button twice.
- d) The Portable Unit will sound the alert tone and flash "OFF" in the display. The Portable Unit is now off.

WARNING

IF THE LOW BATTERY INDICATION OCCURS AT ANY TIME DURING USE OF THE RESPIRATOR, THE BATTERIES MUST BE CHANGED BEFORE THE NEXT USE OF THE RESPIRATOR. USE OF A RESPIRATOR WITH DEPLETED BATTERIES MAY LEAD TO A FAILURE OF THE RESPIRATOR WHICH COULD RESULT IN SERIOUS INJURY OR DEATH.

USE OF THE SEMS BASE STATION

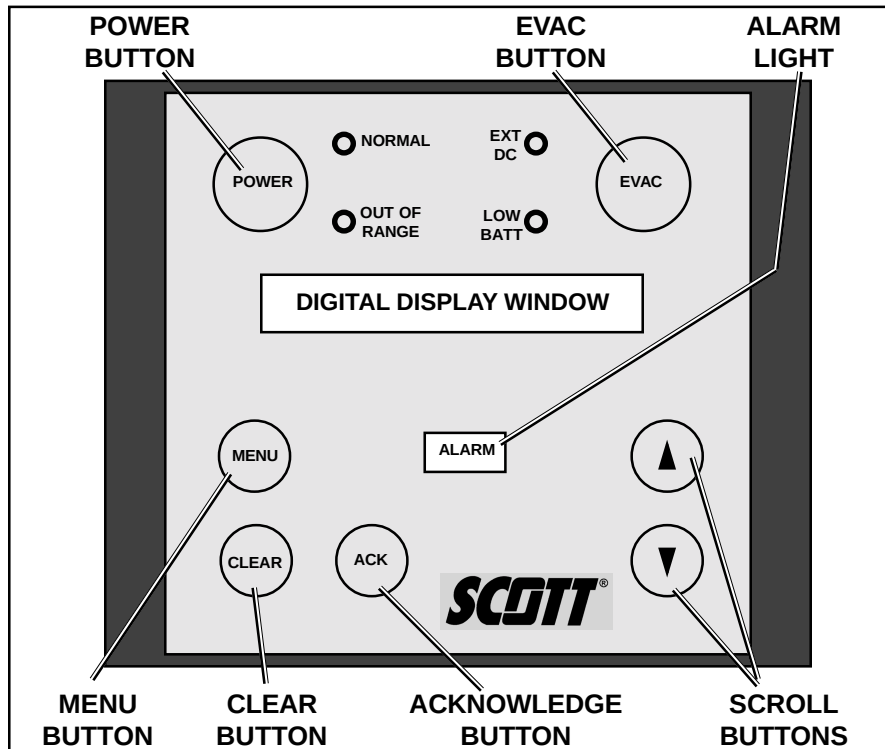
The SEMS Base Station must be properly programmed before field use. See SEMS Programming Guide Scott P/N 89506-01 for complete details of SEMS programming.

The SEMS Base Station requires batteries for operation. See the BATTERY REPLACEMENT section of this instruction. An optional external power supply is available.

The SEMS Base Station must be operated by a fully trained individual as part of a complete respiratory protection program. The Base Station operator must have the ability to direct rescue operations as needed.

WARNING

THE SEMS BASE STATION MUST BE MONITORED BY A FULLY TRAINED INDIVIDUAL WITH THE ABILITY TO DIRECT RESCUE OPERATIONS AT ALL TIMES WHEN LOGGED-IN RESPIRATOR USERS MAY BE IN A HAZARDOUS AREA. FAILURE TO PROVIDE A PROPERLY TRAINED BASE STATION OPERATOR MAY PERMIT A SITUATION TO OCCUR WHICH COULD RESULT IN SERIOUS INJURY OR DEATH.



**FIGURE 3
BASE STATION**

1. Start-up
 - a) Press the POWER button on the Base Station to begin operation.
 - b) All Portable Units that were initialized before the Base Station was powered up will be logged-in as indicated by "ACK" registered with the user's identity.
 - c) Any Portable Units initialized after the Base Station is powered up will also be logged-in as indicated by "ACK" registered with the user's identity.
 - d) The base station tracks the time for each Portable Unit from log-in until each respirator user leaves the hazardous area and shuts down their respirator.
2. Evacuation
 - a) To send an evacuation message to all logged-in respirator users, the Base Station operator must press and hold the "EVAC" button on the Base Station and then choose "ALL-CALL" from the menu on the display. The "EVAC" message will be sent to all logged-in respirator users.
 - b) To send an evacuation message to only selected respirator users, the Base Station operator uses the scroll buttons to move

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up and down the list of logged-in respirator users and presses the “EVAC” button when the selected users are highlighted in the display.

- c) The respirator users who receive the “EVAC” message must press the RESET button on the Portable Unit to acknowledge the message.
- d) The Base Station listing of logged-in users will display “CONF” with each respirator user who has responded to the “EVAC” message.

3. Air Supply Monitoring

- a) When the air supply cylinder reaches one-quarter of full pressure, the alert sound will occur and the Portable Unit will display “LOW AIR”. A low air signal will be sent to the Base Station within ten seconds. This end of service time indicator (EOSTI) alarm cannot be silenced by the user until the user leaves the hazardous area and shuts down the respirator.
- b) The Base Station operator must press “ACK” on the Base Station to acknowledge the user’s low air signal.

BATTERY REPLACEMENT

Battery replacement for the Portable Unit is detailed in the Operation and Maintenance Instructions for the PAK-ALERT EMS as installed on the AIR-PAK respirator. Those instructions are as follows:

- for PAK-ALERT EMS installed on AIR-PAK 2.2/3.0/4.5/Fifty:
See Instruction P/N 89501-01

Battery replacement for the Base Station is as follows:

1. Place the Base Station in a clean, nonhazardous area. Verify that the unit is not in use and is OFF.
2. Set the Base Station with the control panel face up and the bottom of the unit accessible.
3. Remove the three (3) battery caps from the battery compartments by unthreading them counterclockwise. See FIGURE 4.

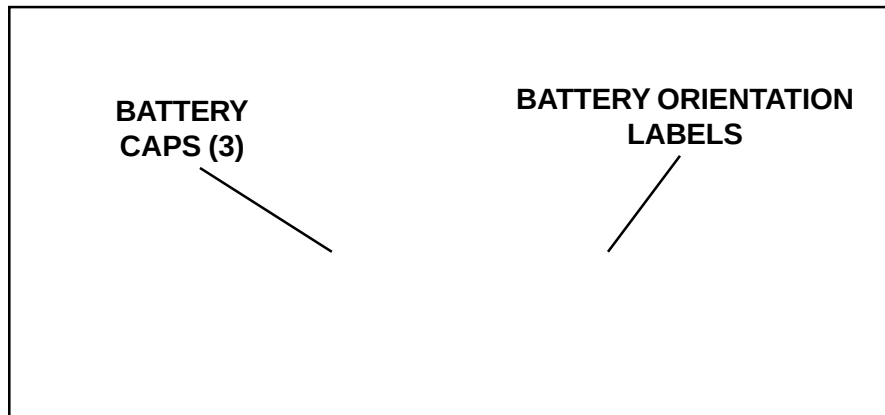


FIGURE 4
BATTERY COMPARTMENTS ON BASE STATION

4. Remove the six (6) depleted batteries.
5. Install six (6) fresh new "C" cell batteries. Use six (6) of the following: Duracell MN1400, or Eveready Alkaline No. E93 or EN93. Be sure orientation of batteries is as noted on labels inside the battery compartments.
6. Replace the three (3) battery caps by threading them on clockwise.
7. Power up the Base Station and perform the REGULAR OPERATIONAL INSPECTION as defined in this instruction.

MAINTENANCE

Except for programming and battery changing, there are no service operations or user serviceable parts available to the user.

WARNING

FAILURE TO REPLACE THE BATTERIES AND/OR CONTINUING WITH MULTIPLE USES OF THE SEMS EQUIPMENT AFTER THE LOW BATTERY CONDITION HAS BEEN INDICATED MAY RESULT IN FAILURE OF THE SEMS ACCOUNTABILITY SYSTEM DURING USE WHICH COULD LEAD TO SERIOUS INJURY OR DEATH.

**NOTICE:
THESE USER INSTRUCTIONS
ARE TO BE REMOVED ONLY
BY THE END USER.**

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Health & Safety
ISO 9001 REGISTERED

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SCOTT[®]
HEALTH & SAFETY

Health & Safety Products
Monroe Corporate Center
PO Box 569
Monroe, NC 28111
Telephone 1-800-247-7257
FAX (704) 291-8330
www.scotthealthsafety.com

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