MSA Accountability System

MSA
The Safety Company

Enhance Your Fireground Safety with MSA's Accountability System!

Accountability is key to every firefighter's safety on a fire scene. You simply can't afford not to have the very best telemetry technology available. MSA's Accountability System technology combines software with a high-performance radio module and the field-proven technology of MSA's ICM® TxR Integrated PASS. Add the Accountability System to MSA's FireHawk® M7 Air Mask, and you'll be wearing the best integrated SCBA accountability system available.

A new way to monitor vital information

❱ Each MSA base station can monitor up to 50 firefighters; multiple base stations can be used with a single computer.

❱ The Accountability System transmits firefighter name, team assignment, cylinder pressure, service-time remaining, PASS alarms (motion or manual), thermal alarms, battery status,radio connectivity, and evacuation acknowledgement to incident command.

A fireground management system

❱ Personalized ID tags for each firefighter tell incident command exactly who is on scene.

❱ An integrated PAR (personnel accountability report) timer helps to manage each team's radio calls.

❱ Incident command can manually add firefighters who are not wearing an SCBA to the system, as well as aid firefighters
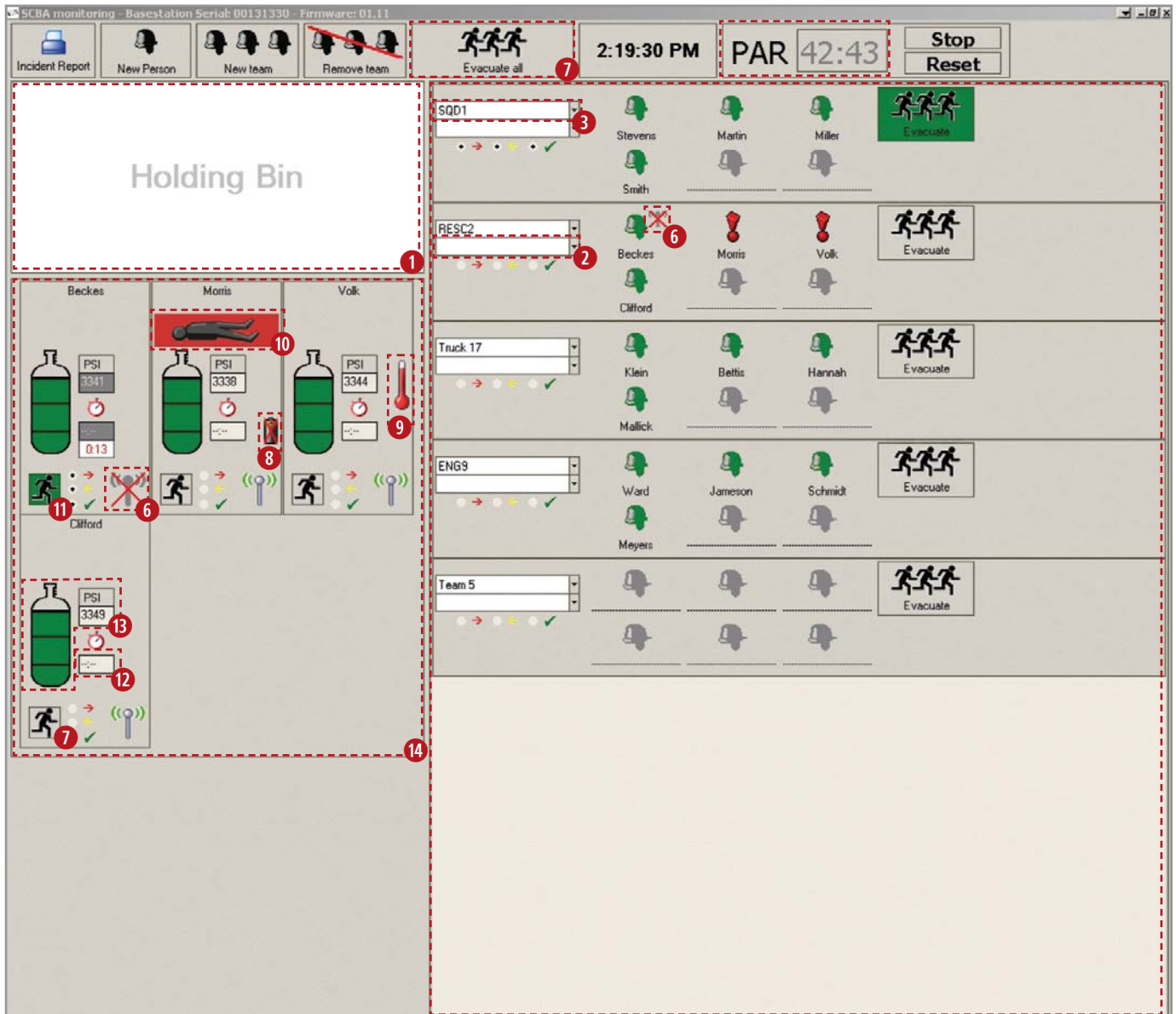
Intuitive and easy to use

❱ Assign firefighters to teams by clicking on a firefighter's icon and dragging it to another team.

❱ Critical information is available at a screen glance due to the large number of firefighters whose information can be displayed and the information's pictorial format.

❱ Receive both audible and visual critical event indications such as PASS or low-pressure alarms.

A two-way evacuation feature

❱ Incident command is assured that firefighters receive all evacuation messages. When incident command transmits the alarm through the FireHawk® M7 Air Mask PASS device, they'll know that the firefighter received it, as the unit automatically sends a confirmation message to the base station.

❱ By simply pressing a button on his/her own FireHawk M7 Air Mask PASS device, a firefighter sends manual confirmation to acknowledge receipt of the evacuation message.

❱ Firefighters will hear the evacuation alarm on their PASS devices.

❱ Visual HUD indications and FireHawk M7 PASS device icons alerts firefighters that it is time to evacuate.

❱ An individual firefighter, a team of firefighters, or all firefighters can be evacuated.

❱ Although some concrete and steel commercial structures can challenge any radio signal, Accountability System coverage with radio technology provides highly reliable performance for a one-mile line-of-sight range.

❱ Spread-spectrum design helps to prevent interference with other high-band radio frequency equipment.

❱ For additional safety, both base station and firefighter modules have an icon message to inform users should a firefighter fall out of radio signal range, allowing for alternate accountability measures such as voice radio contact with teammates to be taken.
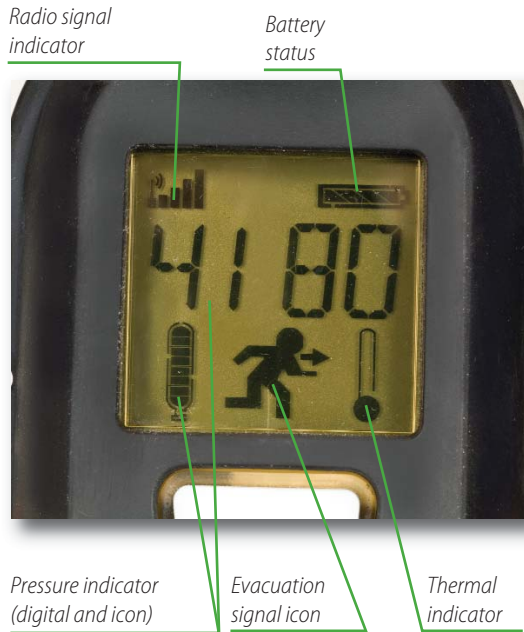
Accountability Software Screen

1 HOLDING BIN FOR ARRIVING FIREFIGHTERS
2 TASK ASSIGNMENT
3 TEAM NAME
4 PAR TIMER
5 TEAM DETAIL AREA
6 RADIO CONTACT INDICATORS
7 EVACUATION BUTTONS
8 LOW-BATTERY INDICATOR

9 THERMAL ALARM
10 PASS ALARM
11 EVACUATION ALARM INDICATOR
  • SENT
  • RECEIVED
  • ACKNOWLEDGED
12 AIR TIME REMAINING CALCULATOR
13 CYLINDER PRESSURE DISPLAY
14 SCBA DETAIL AREA

MSA's FireHawk M7 Accountability System consists of five main components:

① FireHawk M7 Control Module

Radio signal indicator *Battery status*

Pressure indicator (digital and icon) *Evacuation signal icon* *Thermal indicator*

❱ Provides graphical display of battery status, cylinder pressure, heat alarm, evacuation commands, radio connectivity, and service-time remaining.

❱ Measures and calculates your air consumption rate during the first three minutes of use. After initial calculation, service-time remaining function is updated every 30 seconds.

Reliable solid-state accelerometer detects firefighter motion

❱ Offers sensitivity to motion and resistance to false alarms while meeting your job demands.

❱ Resistant to typical wear associated with mechanical components.
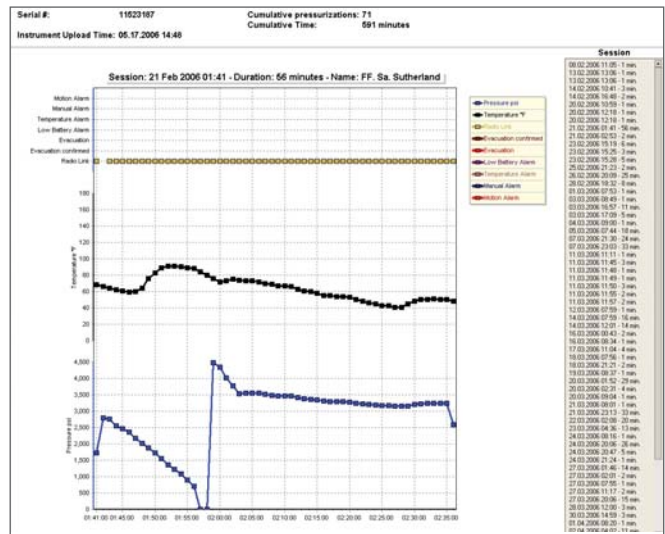
Buddy light increases visibility

❱ In monitor mode, a bright green LED flashes behind the translucent manual PASS alarm button.

❱ In PASS full alarm mode; light turns red for quick recognition of a firefighter in distress.

Optional heat sensor monitors temperature

❱ The temperature-sensing unit (thermistor) measures heat on a time-weighted average (based upon the guideline that 180°F for 8 minutes is just as hazardous as 600°F for one minute).

❱ At either extreme and at every temperature in between, an alarm sounds, alerting you that hazardous heat levels are looming.

Data logging makes recordkeeping simple

❱ Information detailing the most recent 25 hours of use is stored by the FireHawk M7 PASS device; software lets you download, display, and store your data.

❱ Each time your SCBA is pressurized, a use session records the day, time, firefighter name (if ID tags are used), cylinder pressure, air consumption rate, and time of alarms (thermal, PASS, and low-pressure warning).

❱ If previous data was not downloaded to your PC, the FireHawk M7 PASS device will simply record over the earliest information in storage, retaining the most recent 25 hours of usage information.

② ID Tag

❱ Using a personalized ID tag, each firefighter can store his/her name, jump seat location, station number, and other information.

❱ Your personal information then becomes part of the data logging record retrieved when all PASS device information is downloaded.

③ FireHawk M7 Reader / ID Tag Writer

❱ Plugs into your computer's USB port and downloads FireHawk M7 PASS device data.

❱ Programs ID tags.

④ Accountability Base Station Incident Command Module

❱ Transmits and receives radio signals to and from the FireHawk M7 PASS device via the license-free 902 – 928 MHz frequency band.

⑤ FireHawk M7 Accountability Software

❱ Enables incident command to view each firefighter's vital statistics on scene, such as PASS alarms, cylinder pressure, thermal alarms, battery status, time-remaining calculations, and evacuation acknowledgement.

❱ Pulls critical information onscreen via pop-up windows.

❱ Uses a color-coded icon system, enabling incident command to quickly determine each firefighter's status. Color-coding, the same as that used in HUDs, builds consistency for personnel on both sides of the fire scene: incident command and firefighters in the structure.

Cylinder Pressure	HUD Display	Helmet Icon shown on laptop screen
100 – 76%	4 green LEDs	Green
75 – 51%	3 green LEDs	Green
50 – 26%	2 yellow LEDs	Yellow
Less than 25%	1 blinking red LED	Red

❱ Incorporates a Personnel Accountability Report (PAR) timer. As departments use different time increments for PAR, the system can be programmed for PAR reminders at predetermined intervals.

❱ Assembles all event details quickly and easily into a complete incident report.

❱ PC minimum system requirements are 1 GHz Pentium III processor or equivalent, 256 MB RAM, USB 1.1, 16 MB graphics card, 200 MB free disk space, Windows XP, Windows Vista, or Windows 7 operating systems.

Activity by person

Steck

ICM TxR serial-no.	11521703

Incident No. 42606003

Incident start
04.26.2006 10:51:30

Incident end
04.26.2006 10:58:04

Duration
5 Min.

Pressure consumption/PSI
1

Date	Time	Message	Pressure/PSI
04.26.2006	10:52:33	join team :SQUAD2	0
04.26.2006	10:52:39	Mission start	1
04.26.2006	10:54:09	Evacuation sent	1
04.26.2006	10:54:13	Evacuation sent	1
04.26.2006	10:54:18	Evacuation sent	1
04.26.2006	10:54:18	Evacuation received	1
04.26.2006	10:54:25	Evacuation confirmed	1
04.26.2006	10:57:57	End of mission	1

Incident No. 42606002

Incident start
04.26.2006 10:34:45

Incident end
04.26.2006 10:39:39

Duration
3 Min.

Pressure consumption/PSI
0

Date	Time	Message	Pressure/PSI
04.26.2006	10:35:57	Mission start	1
04.26.2006	10:38:04	End of mission	1

Incident No. 42606001

Incident start
04.26.2006 10:19:41

Incident end
04.26.2006 10:29:19

Duration
1 Min.

Pressure consumption/PSI
0

Date	Time	Message	Pressure/PSI
04.26.2006	10:25:36	Mission start	1
04.26.2006	10:25:46	join team :Team 1	1
04.26.2006	10:25:56	Evacuation sent	1
04.26.2006	10:26:01	Evacuation sent	1
04.26.2006	10:26:02	Evacuation received	1
04.26.2006	10:26:02	Evacuation confirmed	1
04.26.2006	10:26:22	End of mission	1

Editor: SCBA monitoring

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Accountability System

MSA's Accountability System revolutionizes fireground safety by combining the latest computer software with a high-performance radio module and the field-proven technology of MSA's FireHawk M7 Air Mask PASS.

Ordering Information

P/N	Description
10072240	Accountability Base Station Kit *(includes software, antenna kit, USB cable, 8-24 volt power cable)*
10083876	FireHawk M7 Control Module Reader/FireHawk M7 ID Tag Writer
10083875	FireHawk M7 ID tags
10075756	Antenna kit
10063880	USB cable
10049410	8-24 volt, power cable
10047342	Wall-mount power cable *(not included in 10072240 kit)*

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