



SCOTT
Fire & Safety

3M™ Scott™ Air-Pak™ X3 Pro

Self-Contained Breathing Apparatus

NFPA 1981/1982, 2018 Edition



Air-Pak™ X3 Pro SCBA

More than ready.

3M™ Scott™ Fire & Safety has been committed to serving the fire service for more than 85 years. In that time, our purpose and focus has remained unchanged – to provide the most reliable and durable personal protective equipment to ensure the safety of firefighters and first responders. The result is an Air-Pak SCBA built with quality and precision that you can trust to perform in the most demanding conditions. This level of proven, trusted performance has been carried forward with our latest Air-Pak SCBA platform.

Building on this tradition, 3M Scott Fire & Safety is proud to announce the continuation of the Air-Pak™ X3 Pro platform with its latest NFPA 1981/1982, 2018 Edition offering.

NFPA 1981/1982, 2018 Editions Standards Highlights

Second Stage Regulator Retention & Removal

- Strength of interface test added to verify the connection between the facepiece and second stage regulator
- If the SCBA incorporates a removable regulator, two distinct actions for disconnection are required prior to removal of the regulator

Pneumatic Data-logging

- All SCBA shall incorporate data-logging and, at a minimum, the following events and data points shall be identified and recorded with a date and time stamp for each event:
 - Initial activation pressure
 - SCBA pressure on the high-pressure side of the first stage pressure reducer
 - Data-logging at 30 second intervals
 - Transmission of HUD visual information signals for cylinder breathing air
 - 100%, 75%, 50%, and 35% (EOSTI)
 - Breathing rate at 30 second intervals
 - HUD deactivation pressure

Universal Emergency Breathing Safety System (UEBSS)

- New standardized fittings (Rectus type) for all manufacturers

Universal PASS Tone

- All PASS devices have a universal sound regardless of the manufacturer
 - This requirement was originally incorporated into the NFPA 1982, 2013 Edition standard as part of a Tentative Interim Amendment (TIA)



Universal UEBSS



Air-Pak™ X3 Pro SCBA

More than ready.

The Air-Pak™ X3 Pro SCBA is built on a foundation of redundant safety features, providing unparalleled performance to protect the family of firefighters who expect the best in the most demanding conditions, with a focus on enhancing Cleanability, Comfort, and Connectivity to ensure the security and comfort of today's firefighter.

With the new As Long As You Own It Air-Pak SCBA Warranty, customers will have peace of mind knowing that their most important investment is backed for the lifetime ownership of the product.



**Proven. Trusted.
Performance.**

- New harness materials offer greater resistance to chemical exposure and less water absorption to help minimize contamination
- Easy-to-remove harness allows for cleaning and decontamination to help with exposure reduction
- New shoulder harness design improves the ease of donning and minimizes pressure points to help reduce user fatigue
- Natural articulation (i.e. waist pad) promotes greater range of motion to the user, while transferring weight to the hips for a more balanced load
- Proven regulator design offers low breathing resistance to help reduce user burden and improve operational efficiencies
- Redundant safety features afford firefighters peace of mind knowing that the SCBA will perform in the toughest environments
- 3M™ Scotchlite™ Reflective Material delivers enhanced visibility of the SCBA when operating in low light conditions, improving safety and accountability on the fireground.
- Bluetooth® enabled electronics support wireless connectivity between devices for improved configurability, data transmission/retrieval, firefighter safety and fireground accountability
- Electronic PAR (ePAR) provides wireless, bi-directional communication between the firefighter and incident command (using Monitor Pro telemetry software) to help improve fireground accountability and communications
- System Integrity Alarm provides visual and audible alerts to notify SCBA wearer and incident command (using Monitor Pro telemetry software) of impending electronics degradation due to elevated temperature.
- Integrated RFID tags provide local storage of SCBA information that can be wirelessly interrogated for asset tracking
- Proudly “Made in the USA” with attention to quality and workmanship

Safety and Performance From All Sides

5.5 Cylinder Technology minimizes weight and profile, helping to reduce user fatigue, improve productivity, and decrease injuries

As Long As You Own It Warranty provides peace of mind knowing that your most important investment is backed for your lifetime ownership of the SCBA

Proudly **"Made in the USA"** with attention to quality and workmanship

Easy-to-Remove Harness allows for cleaning and decontamination to help with exposure reduction

Meets the latest **NFPA 1981/1982, 2018 Edition** standards

Central Power Source improves battery management to minimize cost of ownership

"Buddy" Lights enable a 360° view of the firefighter's air pressure and PASS status

Universal EBSS provides compatibility between SCBA for "Buddy Breathing"

Snap-Change cylinder connection provides rapid cylinder replacement and improves cylinder charging efficiencies

Redundant Safety Features afford firefighters peace of mind knowing that the SCBA will perform in the toughest environments

RFID-Enabled Bumper tracks cylinder fill history and monitors DOT compliance (i.e. hydrostatic testing)



Safety and Performance From All Sides

Integrated Drag Rescue Loop provides a horizontal pull strength of 1000 lbs to assist with rescuing a downed firefighter

Aluminum Alloy Backframe offers a lightweight, durable design to withstand the rigors of the fireground

New Harness Materials offer greater resistance to chemical exposure and less water absorption to help minimize contamination

Proven Regulator Design offers low breathing resistance to help reduce user burden and improve operational efficiencies

Electronic PAR (ePAR) provides wireless communication between the firefighter and incident command (using Monitor Pro telemetry software) to improve fireground accountability and communications

New Buckle Design provides firm hold to prevent inadvertent loosening of shoulder and waist straps to help provide a secure fit of SCBA on the firefighter

"Buddy" Lights enable a 360° view of the firefighter's air pressure and PASS status

Naturally Articulating Waist Pad promotes greater range of motion to the firefighter, while transferring weight to the hips for a more balanced load

3M™ Scotchlite™ Reflective Material enhances visibility of the SCBA when operating in low light conditions, improving safety and accountability on the fireground



Providing Value To Our Customers

Stay Connected To Your Most Important Assets

Two of the most critical components of a successful fireground operation are maintaining personnel accountability and effective communications. These also happen to be two of the biggest challenges that fire departments are faced with today. As an incident commander, there is no greater fear than losing track of one of your firefighters and not being able to communicate. This is where 3M Scott Fire & Safety's latest SCBA solution comes in.

The Air-Pak™ X3 Pro SCBA incorporates an ePAR feature that enables an incident commander to check the PAR status of a firefighter without the need to broadcast over the radio network. Utilizing SEMS II Pro with Monitor Pro telemetry software, a PAR request is sent to the firefighter with an audible and visual alert notification. With a simple click of a button on the PASS console, the firefighter sends an acknowledgment back to incident command. By reducing excess radio traffic and relying on data transmission through the SEMS II wireless telemetry system, accountability is preserved while helping to maintain effective radio communications for when it matters most.

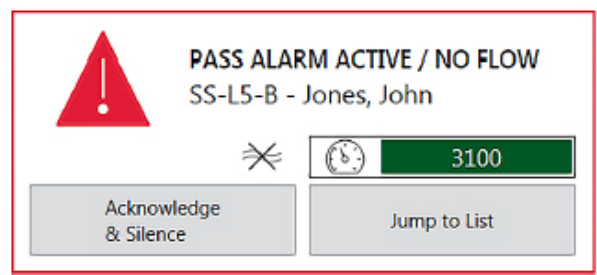
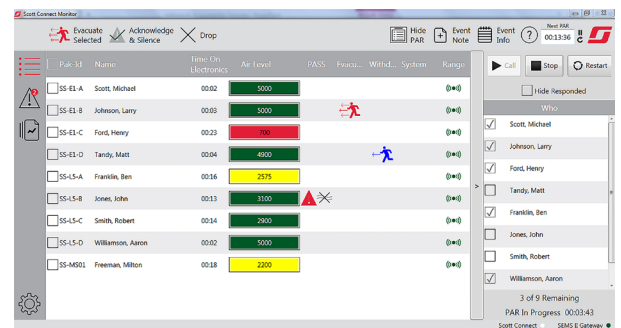


Improving Accountability One Firefighter at a Time

The Monitor telemetry software solution puts critical, real-time responder SCBA information at incident command's fingertips. Designed for use on modern, touch-enabled PCs, this easy-to-understand air management solution allows incident command to see air, PASS and EVAC data available while establishing and maintaining command. Additional alert notifications – high flow or no flow condition at full alarm PASS – provide incident command with enhanced situational intelligence to guide critical decision making.

Monitor Pro Package, paired with SEMS II Pro, further enhances communications by giving incident command the ability to electronically call for PAR (ePAR) with a simple click or tap of a button on the user interface, reducing excess radio traffic while still maintaining personnel accountability.

Monitor's automated design complements existing accountability and incident command SOGs without the burden of additional work.



Providing Value To Our Customers

Communicate Clearly



It's a no brainer. Clear radio communications on the fireground is a must-have when it comes to the safety of firefighters and other first responders. Not only is it essential that firefighters have the ability to communicate reliably between one another, but also with command and dispatch units. We all know that background noise is a fact of life on the fireground. There are noisy sirens, saws, positive pressure ventilation fans and other noise-producing equipment. Unfortunately, all of this noise compounds the firefighter's ability to hear in high noise situations, including over the radio. That's where 3M Scott Fire & Safety has stepped in.

The EPIC 3 RDI voice amplifier provides clear and loud SCBA and radio voice communications on the fireground for improved firefighter situational awareness and safety. Integrated noise suppression technology reduces environmental ambient noise from the facepiece and radio voice communications, allowing first responders to be clearly heard and understood when communicating with incident victims, team members, incident commanders, and remote dispatchers. Clear communication shouldn't be something that happens by chance. The EPIC 3 RDI offers confidence in clear communications that you can trust.



Innovation at First Sight

When you wear 3M™ Scott Sight, you get more than constant thermal vision. You get your hands back. That's because unlike other thermal imaging devices integrated into the SCBA, Sight combines a camera with a display in the facepiece without the need for reaching down and lifting a camera up. Firefighters now have both hands free for effective communication, victim extraction and carrying tools. Maintaining visibility is the key to reducing search times, hazard identification, interior accountability, navigation and egress. With the Sight in-mask thermal imager, you will never miss a thing as it is always present, always visible and hands-free. 3M Scott Sight takes situational awareness to a whole new level – Situational Intelligence!

Sight Goes Pro

Sight Pro Package is the next evolution of the industry's first in-mask, hands-free thermal imaging solution. Pro Package enables new, advanced features to provide firefighters with greater situational awareness during fireground operations.

Features:

Hot-Spot Tracker

Immediately identify the hottest part of the scene and display its relative temperature. Ideal for overhaul, search and rescue, and risk assessment.

Cold-Spot Tracker

Immediately identify the coldest part of the scene and display its relative temperature. Ideal for hazmat environments.

Tactical Video Recording (TVR)

Automatically record all the information shown on the IMD for review later.

Our Promise to the Fire Service

As the fire services industry leader in self-contained breathing apparatus (SCBA), our role at 3M™ Scott™ Fire & Safety is not only to provide the best equipment to protect firefighters and first responders in their daily jobs, but to do our part through product design, messaging, and strategic partnerships to educate and protect the long-term health of firefighters around the world. We take that responsibility seriously and are committed to instituting change. Not only for the firefighters of today, but for the firefighters of tomorrow.

Changing the way *We Think*

3M Scott Fire & Safety is committed to supporting the extensive cancer research that is being done across the country and around the world to better understand the exposure risks faced by firefighters. These risks are not just present during tactical fireground operations, but also during overhaul and rehab. Just as important are the exposure risks faced when not operating on the fireground, including, but not limited to, riding in the apparatus with contaminated gear and equipment or storing contaminated gear in fire station living quarters.

Changing the way *We Act*

3M Scott Fire & Safety makes a promise to participate directly in the development of best practices to minimize those exposure risks faced by firefighters. Whether that be proper air monitoring procedures, respiratory protection usage during overhaul, gross decon after an incident, routine cleaning procedures, or alternative storage methods of contaminated PPE, we are committed to supporting the development of new practices, and recognizing and sharing those best practices, no matter where in the world they may originate.

Changing the way *We Advocate*

3M Scott Fire & Safety will lend our voice to this very important cause. Working with the First Responder Center for Excellence, a National Fallen Firefighter's Foundation affiliate, the Firefighter Cancer Support Network, and the Fire Service Occupational Cancer Alliance, we will use our knowledge and expertise to promote better awareness across the fire services as to the long-term exposure risks and the best practices to help reduce those risks.

Changing the way *We Lead*

At 3M Scott Fire & Safety, our commitment extends beyond education and advocacy, to the products that we design and deliver. Our promise is that every new SCBA we develop will be offered with a removable harness and webbing to aid and enhance decon procedures, both on the fireground and at the fire station. 3M Scott Fire & Safety will continue to develop industry leading respiratory protective products that will assist in preventing dangerous contaminants from being inhaled during all parts of firefighting – suppression, overhaul, clean up, and investigation. Furthermore, we will invest in sensing technologies that deliver awareness not only of immediate threats to a firefighter's life and health, but also to the long-term threats from the environment surrounding them.

More than ready.



3M™ Scott™ Fire & Safety

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