



DEDICATED TO YOUR SAFETY.
FIRE & EMERGENCY SERVICES

Drägersafety



When you face danger every day, you need to be able to rely 100% on yourself, your colleagues, and your equipment.

SAFETY HAS MANY SIDES. DRÄGER SAFETY'S GOAL IS TO DEVELOP RELIABLE SOLUTIONS FOR EVERY ONE OF THOSE SIDES, MAKING YOUR DAILY DUTIES AS EASY AS POSSIBLE.

Dräger Safety products are put to work all over the world by specialists of all backgrounds and nationalities. All of them have one thing in common: a commitment to safety.

The daily tasks of professional emergency teams vary from team to team and from day to day, with you and your colleagues constantly facing extraordinary situations and needing to bring them under control as quickly and safely as possible.

For over 100 years, the goal of Dräger has been to protect and assist rescue workers and emergency personnel around the world. The requirements of professional firefighters, with their multifaceted duties, and the needs of aid organisations and res-

cue teams working in disaster situations, all demand tailor-made safety solutions manufactured to the highest quality standards. Wherever people need protecting from onerous environments or have to perform extraordinary tasks in life-threatening situations, Dräger Safety solutions can be relied upon to provide the utmost in safety.

Since its foundation in 1889, Dräger has led the way in innovation, developing products at the leading edge of safety technology. In 1914, Dräger unveiled the first respirator



masks, diving rebreathers and portable anaesthesia devices. In 1946, the first compressed air breathing systems, deep-sea diving equipment, long-duration breathing devices and gas measurement technologies were added to the range. The boundaries were pushed forward in 1998 with the development of the DrägerMan PSS® 500; a revolutionary compressed air breathing apparatus with a unique, ergonomically designed carrying system and air containment unit. Most recently in 2001 came the latest development, the

DrägerMan PSS® Merlin; the first automated, telemetric entry control monitoring system to be integrated into the breathing apparatus set.

In the past, the present and the future, Dräger Safety has and will continue to set new standards, standards which move the boundaries and become the benchmarks the world later strives to achieve.

People are always central to our activities, with preserving life being our primary goal.

It shall therefore come as no surprise to discover the way in which we integrate our customers' thoughts and needs into our development process. Our experience tells us that only by giving our customers precisely what they need is success achieved. It is for this reason that we work with them, in order to provide them with products and solutions which are second to none.

Our goal is to enable you to breathe as easily and freely as possible whilst you're in action – so you can focus on the really important things.

CONCENTRATION ON THE TASK IN HAND IS CRITICAL TO SAFE AND SUCCESSFUL OPERATIONS. DRÄGER BREATHING APPARATUS IS DESIGNED WITH THIS GOAL IN MIND, OFFERING YOU THE GREATEST POSSIBLE FREEDOM AND COMFORT – A FOCUS WHICH HAS BEEN SETTING THE WORLDWIDE STANDARD FOR GENERATIONS.

The DrägerMan PSS® 100 and Dräger PSS® BG4 give the concept of a personal safety system (PSS®) a new meaning, providing the modern-day firefighter with state-of-the-art high-performance breathing apparatus. Products engineered to provide the optimum in wearer and breathing comfort, the PSS range gives you equipment to cover operations requiring respiratory protection for periods of up to 4 hours.

The DrägerMan PSS® 100 features a revolutionary ergonomic carrying system setting new standards in wearer comfort. Used in conjunction with lightweight carbon composite cylinders, the DrägerMan PSS® 100 gives optimum wearer comfort for operations requiring anything from 30 to 60 minutes of respiratory protection.

For fire and rescue operations where an extended duration of breathing air may be required, Dräger Safety can offer the Dräger PSS® BG4, a closed-circuit breathing apparatus providing respiratory protection for periods of up to 4 hours.

The Dräger PSS® BG4 closed-circuit breathing apparatus is a new, high-performance development. Specially engineered for

fire service applications where longer durations than those provided by compressed air breathing apparatus are required, such as tunnel fires or incidents in underground installations, the Dräger PSS® BG4 also features the latest in electronic monitoring and warning: the Bodyguard® II*, a device optionally available on all the Dräger PSS® compressed air breathing apparatus. The DrägerMan PSS® 100 and Dräger PSS® BG4 are, as with all of Dräger's range of breathing apparatus, designed for use with the Panorama Nova face mask, globally tried, tested and renowned for its exceptional comfort and performance.

Countless experts in practical applications around the world have put the Dräger PSS® range through its paces on thousands of assignments – that is why it is trusted. No matter what type of operation: our future-oriented developments ensure that you will be able to breathe easily and in comfort – so you can always concentrate on the really important parts of your assignment.

* Bodyguard® II is traded under the name Sentinel II in the NAFTA region



ST-128-2000



ST-391-2001



A US firefighter's comment on the topic of breathing easily during operations: "We evaluated a number of breathing apparatus and I must say that the Dräger BA is amongst the best in the world."



Dräger PSS® BG4
This closed-circuit breathing device is exactly suited for long-term operations in toxic environments.

solution

Dräger Safety tailor-made solutions are available upon request. Just ask – we are happy to prepare a respiratory protective package to meet your needs.



Dräger products are engineered to the highest standards to provide you with long-term reliability and confidence.

IF YOU WANT SAFETY PRODUCTS WHICH ARE BUILT TO LAST AND CAN BE RELIED UPON, LOOK NO FURTHER THAN DRÄGER SAFETY. RESPIRATORY PROTECTION THAT IS SECOND TO NONE THE WORLD OVER.



ST-1017-2003

Firefighter, Denmark:

"On assignment, everything has to go super fast. The Dräger HPS 6100 is extremely light and very user friendly."

Whatever the emergency situation, your head remains one of the most vulnerable parts of your body. Exposing your head to heat and impact presents a great risk of injury during an operation. Only when your head is adequately protected can you exercise the clarity of mind and mental skills required to conduct a successful operation. Without adequate head protection, the firefighter does not only put his own life at risk, but also the lives of his colleagues and those whose lives he is there to protect. In recognition of this, Dräger Safety has applied existing and state-of-the-art knowledge to develop one of the safest and most innovative firefighter helmets available today.

The Dräger HPS 6100 combines know-how amassed over generations with the latest research results and state-of-the-art materials: the helmet shell made from high-temperature-resistant Duroplast offers full protection, even under the most extreme conditions of heat. Incorporating a modern suspension system made from non-flammable and washable Nomex-Coolmax guarantees a secure and comfortable fit. The face mask can be connected to the helmet using the patented Dräger-Supra Adapter or, when wearing a conventional face mask head harness, can be easily readjusted. The helmet is extremely comfortable to wear due to the aramide three-point suspension system, the Nomex



ST-103-2003



ST-74-2003

Dräger HPS 6100/HPS 4100

Dräger helmets are versatile, comfortable, and extremely well engineered. The Dräger HPS 6100/HPS 4100 are the results of a great deal of practical experience by Dräger Safety customers worldwide.

headnet and the washable "ecoleather" headband. An extensive range of accessories is available with the option to customise the helmet with markings/badges if required. The Dräger HPS 6100 passed all of the relevant tests, including the flame engulfment test and the BUK test (high-temperature radiation test) with flying colours.

To further enhance the range, the Dräger HPS 4100 represents another optimum solution for protection, wearing comfort, and economy – and provides many safety features common to the Dräger

HPS 6100: resistance to high temperatures, a secure fit, high wearing comfort, easy adjustability of the neck straps, and much more.

The list of outstanding features for these helmets is not only long, it is reflected in the exceptional comfort experienced by those who wear them. No matter what the type of operation, the HPS 6100 and HPS 4100 are more than just safe helmets: they are proof that uncompromising quality is the only way to achieve maximum safety.

You risk your lives for others. We do everything to minimise the risk to you.



ST-2408-2003

DrägerMan PSS® Merlin

The fully automated monitoring system DrägerMan PSS® Merlin and DrägerMan Bodyguard® II – enhancing the safety of your operations

OFFICERS IN CHARGE KNOW HOW IMPORTANT IT IS TO KEEP AN OVERVIEW OF THE SITUATION. THEY HAVE TO BE KEPT CONSTANTLY INFORMED OF ALL SAFETY-RELATED FACTORS IN ORDER TO MAKE THE RAPID AND EDUCATED DECISIONS NECESSARY FOR SUCCESSFUL OPERATIONS.

Fire and rescue is, by its very nature, a risky business, and the risks are often unpredictable, especially when entering buildings where visual contact with the firefighters is lost to incident command. This makes it all the more important that both the firefighter and the incident command have up-to-date information which allows management of the operation in a safe and controlled manner.

Dräger Safety has developed a system of personal and remote monitoring specifically designed to address this requirement.

The result is a pioneering state-of-the-art safety monitoring system.

With the DrägerMan Bodyguard® II, the firefighter now has a fully electronic monitoring and signalling device at hand which combines a host of previously separate instruments into one unit. Besides displaying breathing apparatus cylinder pressure and temperature, this unit calculates and displays the air time remaining. Additionally, manual and automatic distress signalling and datalogging are all included.

solution

In developing new solutions, Dräger Safety focuses on the true needs of its customers. Prototypes and service concepts do not go into production until we are convinced that we are providing fire services around the world with exactly what they need.

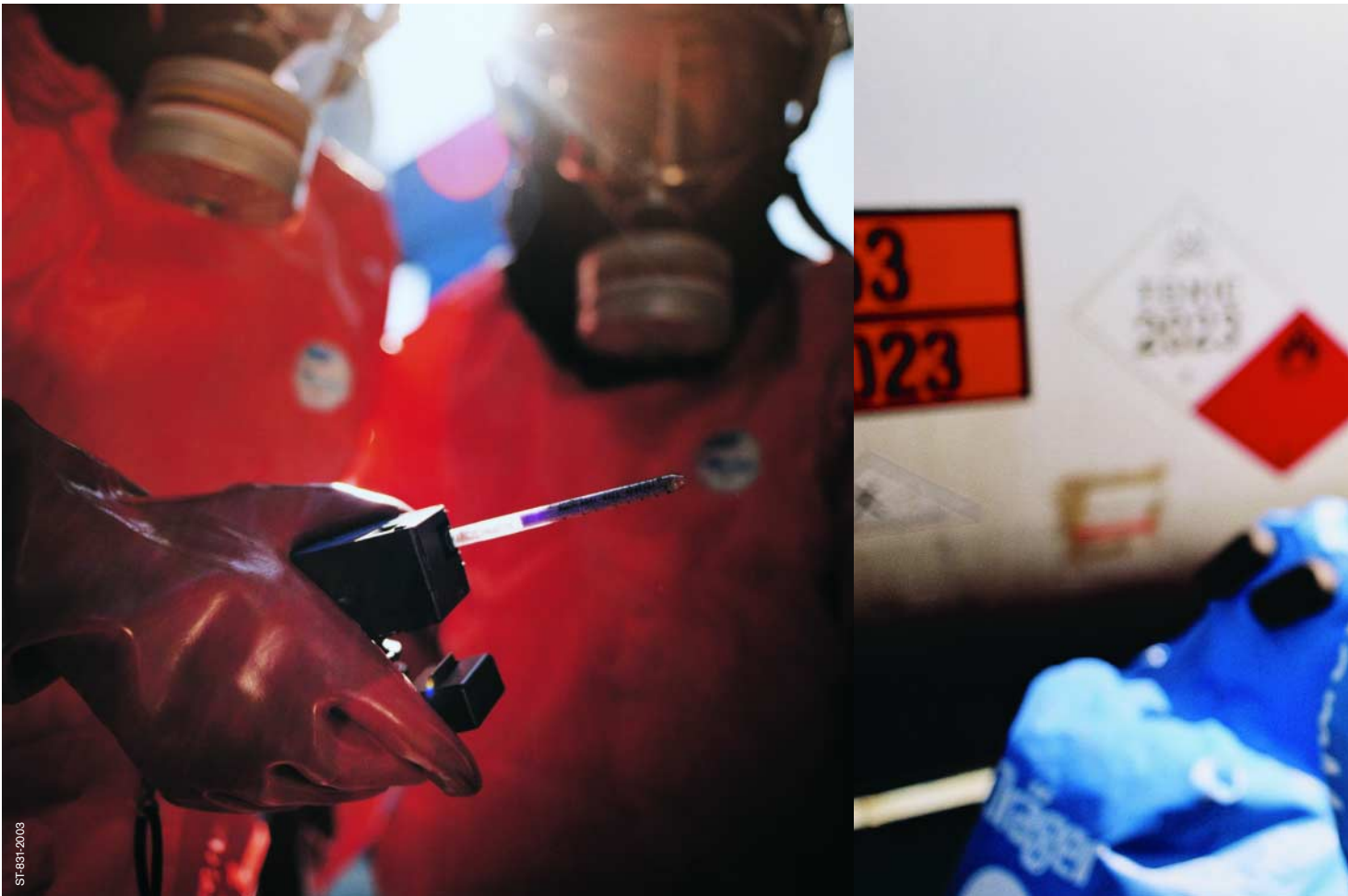


DrägerMan Bodyguard® II is a key component of the new DrägerMan PSS® Merlin breathing apparatus entry control system. Using digital telemetry, this revolutionary system makes it possible to remotely monitor the status of up to 12 individual BA wearers simultaneously.

DrägerMan PSS® Merlin is a two-way communication system incorporating an electronic control board, a DrägerMan Bodyguard® II and a portable radio unit attached to the firefighter's BA set.

The DrägerMan PSS® Merlin entry control board continuously receives and displays pressure, air time remaining, and temperature data from the Bodyguard of each individual logged on to the system. In addition, it receives manual and automatic distress signals and withdrawal signals. The officer in charge also has the ability to send evacuation signals to individuals, or to the complete team at the touch of a button. All signals can be given, received and acknowledged by the firefighter or officer in charge.

With the DrägerMan PSS® Merlin, Dräger Safety has opened up a new dimension in operational control. To develop innovations like these successfully, Dräger Safety has always depended on two essential factors: absolute relevance to actual practice and innovative, creative thinking. Only in this way is Dräger Safety able to create solutions that give you and your colleagues the greatest possible safety – so that you will always continue to master operations with confidence.



Our products protect and warn you in all conceivable situations against a variety of substances – effectively and quickly.

RESPONDING TO A HAZARDOUS MATERIAL INCIDENT REQUIRES THAT UNKNOWN SUBSTANCES BE IDENTIFIED QUICKLY AND ACCURATELY – SO THAT EFFECTIVE MEASURES CAN BE TAKEN – TO PROTECT PEOPLE AGAINST POTENTIALLY HARMFUL SUBSTANCES.

When encountering unknown substances, you must first of all protect yourself and others – with dependable equipment that protects against and identifies potentially harmful unknown substances as quickly as possible. The simultaneous test kits using specially selected Dräger Tubes® can be used to identify these unknown substances.

solution

A true strength of Dräger Safety is the ability to offer you the most suitable solutions for your specific requirements. To accomplish this, you can always count on not only our individual technical advice, but also on our “application lab” and our extensive “Internet database for hazardous materials”.



Professional firefighter, Holland:

"Good equipment is our survival guarantee. Without it, our lives would be at risk every time we respond to a call."



Dräger HazMat Kit 1

This simultaneous test set consists of five specifically selected Dräger Tubes®. The hazardous materials kit includes three simultaneous sets for measurement of 15 different organic and inorganic materials and compounds.



Dräger X-am 7000

One of the many Dräger Safety detection devices. Particularly great flexibility, short response times, sturdy sensor design, multifunctional, well engineered and practical to use.

The Dräger TeamMaster pro chemical protection suit, along with measurement and warning devices like the Pac Ex 2 or the Dräger X-am 7000, provide quick, reliable protection and substance identification. Operational personnel wearing the Dräger TeamMaster pro gas-tight suit, made of chemical-resistant and flash-flame-proof Himex®, can approach contaminated areas with all-round protection. It is a loose and comfortable fit, even when wearing full compressed air breathing apparatus. The extra large visor provides an excellent extended field of vision.

Protected with the TeamMaster pro and with detectors like the Dräger X-am 7000

or the Pac Ex 2, it is possible to approach the contaminated area safely to determine explosive and oxygen hazards quickly and reliably. The Dräger X-am 7000 reliably measures up to five combustible and toxic gases. It offers great flexibility, thanks to the ability to supplement the three electrochemical sensors by plugging in two additional infrared or catalytic sensors depending on requirements. This and other measurement and warning devices to alert persons to the presence of explosive hazards or the dangers of oxygen deficiency or enrichment are used in many areas of application. Always with one goal: to give professionals the greatest possible degree of safety as they carry out their duties.



Successful operations require a high state of preparedness. This means regular training and well-maintained equipment. There is no better way to be prepared.

WHEN THINGS GET SERIOUS, THERE IS NO TURNING BACK. PEOPLE AND MATERIALS HAVE TO FUNCTION WITH TOTAL RELIABILITY. ANY MISTAKE, NO MATTER HOW SMALL, CAN HAVE SEVERE CONSEQUENCES. KNOW THAT YOU CAN RELY ON DRÄGER SAFETY TO PROVIDE YOU WITH WHAT YOU NEED TO KEEP YOU AND YOUR EQUIPMENT UP TO THE TASK.



ST-2815-2003

Dräger Fire Dragon

Dräger Fire Dragon is a mobile trailer-mounted flashover training module which can be brought to your doorstep for training which is conducted in a safe and controlled environment.

Since the success of an operation depends on equipment functioning properly and being used correctly, test equipment and training set-ups are an essential feature of a modern-day safety programme.

In an emergency situation, a firefighter must be prepared for all possible eventualities. Response must be fast, effective and be conducted safely and with confidence. This is only possible when the firefighter is well trained not only in the use of their equipment but also in the response to emergency situations.

Dräger Safety training systems are designed from many years of experience working with firefighters to simulate a comprehensive range of real-life scenarios that may be encountered during an incident. Central to the Dräger Safety training concept are fixed and mobile training galleries and flash-over training simulators with a wide range of tailor-made options.

When called to an incident, you must be confident that your equipment is operating at its optimum level. A regular maintenance

solution

Learn to service your equipment yourself. We offer service training for the widest variety of equipment categories. After all, your safety is our foremost goal.



ST-2639-2003

Technical and user training

Take advantage of Dräger Safety's extensive range of training seminars focusing on care, maintenance and use of Dräger Safety equipment.

and testing regime is imperative to ensure this level of performance is upheld.

A fast, cost-effective method for functional testing is the new Dräger Quaestor automatic – our newest fully automated, PC-controlled universal testing system for breathing apparatus, lung demand valves, pressure reducers, chemical protection suits, diving equipment, and closed-circuit breathing devices (optional). The Quaestor automatic fully automated test device comprises all the functions familiar from

Quaestor III. New in the Quaestor automatic is the inflatable test head with integrated head valve and a microphone for detecting the acoustic warning for compressed air breathing apparatus. You can purchase the Quaestor automatic yourself – or have your equipment tested by us.

Don't leave anything to chance; play it safe. We'll help you, because one rule always applies: safety first!



ST-2472-2003

Dräger Quaestor automatic

New, fully automated, PC-controlled universal testing equipment for breathing apparatus masks, lung demand valves, pressure reducers, chemical protection suits, diving equipment, and closed-circuit breathing apparatus (optional).

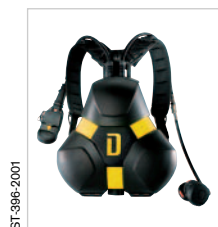


Safety is not something that just happens.
It is a philosophy born out of dedication.

In this brochure, we have presented just a small sample of our products and solutions for your area of application. The following pages give you a clear overview of our product portfolio, specially selected for the fire and emergency services.

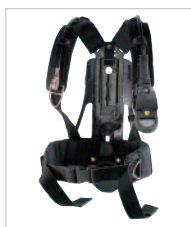
For each of these products you can request detailed information material. Contact your nearest Dräger Safety office or distributor. Further information is also available on the Dräger Safety website.

RESPIRATORY PROTECTION



ST-396-2001

DrägerMan PSS® 500
Compressed air breathing apparatus featuring advanced ergonomic carrying system. Optimal weight distribution using revolutionary triple near-sphere air container shape. (EN 137, NIOSH)



ST-392-2001

DrägerMan PSS® 100
Compressed air breathing apparatus featuring advanced ergonomic carrying system for use with standard air cylinders. (EN 137)



ST-2449-2003

Dräger AirBoss® PSS 100 Plus
Compressed air breathing apparatus features PSS 100 advanced ergonomic carrying system (NFPA 1981:2002 ed).



ST-396-2001

DrägerMan PSS® 90
Compressed air breathing apparatus featuring ergonomic backplate and professional comfort harness. (EN 137)



ST-2449-2003

Dräger AirBoss® Evolution Plus
Compressed air breathing apparatus features PSS 90 advanced ergonomic carrying system (NFPA 1981:2002 ed).



ST-686-2003

Dräger PSS® BG4
Closed-circuit breathing apparatus for long-duration operations of up to 4 hours. Features DrägerMan Bodyguard® II electronic monitoring and warning device.



ST-3149-2003

Dräger PAS AirPack 1&2
Trolley-mounted airline breathing apparatus system. PAS AirPack 1 accommodates up to 2 x 12-litre compressed air cylinders and PAS AirPack 2 single or twin 50-litre cylinders.



ST-2463-2003

Compressed Air/Oxygen Cylinders
Choose from a broad range of cylinders approved to internationally recognised standards.



ST-2419-2003

DefendAir®
NBC escape hood providing at least 15 minutes to escape out of fire situations. It protects against combustion gases and smoke.



ST-2418-2003

PARAT C
Smoke hood providing at least 15 minutes to escape out of fire situations. It protects against combustion gases and smoke.



ST-2479-2003

Panorama Nova
Full face mask for use with extensive range of Dräger respiratory protection devices. Available in either EPDM or silicone and with a full range of accessories.



ST-2440-2003

Respirator Filters
Full range of respirator filters for protection against gases, vapours and particles.



ST-2469-2003

Piccola
High-performance particulate-filtering face pieces available in range of specifications for protection against solid and liquid particles.

HEAD PROTECTION



ST-117-2003

Dräger HPS 6100
Integrated firefighting helmet according to EN 443 for fire and rescue services, made of high-temperature-resistant material with many accessories and in various designs.



ST-74-2003

Dräger HPS 4100
Half shell-style firefighting helmet according to EN 443 for fire and rescue services, made of high-temperature-resistant material with various accessories.

CHEMICAL PROTECTIVE CLOTHING

ST-2411-2003



TeamMaster pro
One-piece reusable chemical protection suits where the respiratory protection device is worn inside the suit.

ST-2412-2003



WorkMaster pro
One-piece reusable chemical protection suits where the respiratory protection device is worn outside the suit.

ST-2465-2003



WorkStar
Lightweight reusable chemical splash suit available in PVC or Flexothane.

ST-2464-2003



Protec Plus TF Tychem® F
Lightweight single-use chemical splash suit made of (Tychem® F).

TRAINING

ST-105-2000



Dräger Training Galleries
Fixed installed and mobile training galleries offer the user search and rescue training by recreating conditions that reflect the stress of real-life situations.

ST-296-2000



Dräger Flash-Over Training Galleries
Firefighters have the opportunity to experience flash-overs and practise correct response in a simulated controlled environment.

SERVICE AND MAINTENANCE

ST-2477-2003



Dräger Testor
Easy-to-use test device for testing breathing masks, compressed air breathing apparatus and chemical protection suits.

ST-2472-2003



Dräger Quaestor automatic
PC-controlled test device for testing a wide range of respiratory protection equipment both dynamically and statically.

ST-2474-2003



Dräger Prestor
Test device for reliably testing large numbers of respiratory protective masks in the shortest possible time and with the greatest possible consistency.

COMMUNICATION AND MONITORING



ST-24406-2003

DrägerMan PSS® Merlin
Fully automatic telemetric entry control system to remotely monitor the status of up to 12 fire-fighters.



ST-24447-2003

DrägerMan Body-guard® II/Sentinel II
Electronic signal and warning device for use with Dräger breathing apparatus.



ST-24445-2003

DrägerMan Flashing Gauge
Pressure gauge with visible low-pressure warning.



ST-24415-2003

Dräger MS-Com
The voice communication device for adaptation to Dräger full face masks for hands-free communication in combination with radio units.



ST-24413-2003

Dräger BAcomm
Voice amplifier for fitting to the Dräger Panorama Nova full face mask.

GAS DETECTION



ST-2441-2003

Dräger X-am 7000
Using electrochemical, infrared and catalytical sensors, X-am 7000 reliably measures up to 5 flammable and toxic gases with extreme flexibility.



ST-2429-2003

MiniWarn
Small, lightweight and ergonomically shaped personal multi-gas monitor for the continuous and simultaneous detection of up to 4 gases in ambient air.



ST-2426-2003

Pac Ex 2
Detects explosive hazards and a lack or surplus of oxygen. Acoustic, vibrating and visible alarms react instantly when the concentration exceeds the set alarm thresholds.



ST-2425-2003

Dräger Multi PID II
Gives you the convenience you need when measuring for volatile organic compounds (VOCs). It is lightweight, robust, and results are available in 3 seconds.



ST-2424-2003

Dräger Multi-IMS
A portable multi-gas scanner for the detection of nerve, blood and lung warfare agents.



ST-2422-2003

Dräger CMS
Put the capability of several gas detection monitors in your hands without all of the worries. The CMS is as easy to use as 1-2-3, all chips use the exact same procedure.



ST-2443-2003

Dräger Emergency Response Test Kits
Application-specific test kits based on the extensive range of Dräger Tubes® allow fast and effective response to hazardous material incidents.

THERMAL IMAGING



ST-1983-2003

Thermal Imaging Cameras
Contact your local Dräger Safety distributor for further information.

DIVING



ST-2420-2003

PSS® Dive
Compressed air diving apparatus for professional users. Features include an innovative face mask and variable configurations.

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