Dräger SCBA Components and Accessories

DRÄGER COMPRESSED AIR CYLINDERS

Dräger offers SCBA cylinders in different sizes and construction to meet the demands of different applications. Cylinders are offered in 2216 (low pressure) and 4500 psi (high pressure) operating pressures. Durations of 30, 45 and 60 minutes (at 40L/min breathing rate) are available. Choose from aluminum or light weight carbon fiber full-wrap construction. SCBA cylinder valves are constructed of anodized aluminum with a built in bumper protector. The valve gauge is double sided with a luminescent gauge face for easy readability. Custom labeling is available on carbon fiber full-wrapped cylinders. Contact a Dräger representative for details.

ST-8303-2007

ST-8304-2007

ORDER INFORMATION

Cylinder, 2216 psi, 30-minute, Aluminum	40 54 856
Cylinder, 2216 psi, 30-minute, Carbon Fiber, Full-wrapped	40 55 701
Cylinder, 4500 psi, 30-minute, Carbon Fiber, Full-wrapped	40 55 700
Cylinder, 4500 psi, 45-minute, Carbon Fiber, Full-wrapped	40 55 698
Cylinder, 4500 psi, 60-minute, Carbon Fiber, Full-wrapped	40 55 699

DRÄGER 5-PULL NOMEX HAIRNET FOR THE DRÄGER FPS 7000

The Dräger 5-pull hairnet offers comfort and fit. Constructed of Nomex, the body of the hairnet will not stretch and mis-shape over time. Elasticized straps permit fast donning and doffing while the 4-pull adjustment allows for a more comfortable fit. The 5-pull adjustment also maintains a better seal and therefore a better fit. Replacement straps are also available.

ST-9282-2007

ORDER INFORMATION

Dräger 5-Pull Nomex Hairnet	R 56 197

Dräger's FPS 7000 Face Mask

Dräger's FPS 7000 series face mask sets new standards in personal safety, protection and comfort. The FPS 7000 face mask is the only mask designed specifically to meet the new NFPA 1981-2007 standards. Available in multiple sizes, the FPS 7000 face mask also has the largest unobstructed field of vision of any mask. Accessories like the FPS-COM voice amplification system is fully integrated into the face mask providing clear communications to other firefighters.

ST 9476-2006

Dräger FPS 7000
P-connector

ST-9507-2006

Dräger FPS 7000
P-connector with Dräger FPS-COM System

Field of vision

The FPS 7000 face mask was designed to provide the firefighter with an exceptional unobstructed wide field of vision. The tough distortion free polycarbonate visor has an anti-scratch coating for protection. Incoming air enters the face mask via a unique one-way valve, distributing the air evenly over the inside of the visor, preventing fogging and cross contamination to the lung demand valve.

Mask Body and Fit

The FPS mask body is made of a durable EPDM rubber material providing an excellent facial seal with outstanding comfort. The unique triple sealing edges on the FPS 7000 face mask (industry first) follows the contour of the firefighters face providing an excellent seal. Three size face masks and inner masks now guarantee a perfect fit to any firefighter. Ergonomically designed, the quick donning head harness forms to the shape of the head to provide excellent comfort and support of the mask to the face.

Clear Communication

Our new mechanical speech diaphragm raises the benchmark to provide excellent communications between firefighters and could be the answer to meet the new stringent NFPA 2007 communication requirements.

The FPS mask is also the first face mask to be designed with a fully integrated communication system. The FPS-COM voice amplifier system forms to the contours of the face mask. The combination of the FPS 7000 face mask with the FPS-COM voice amplifier system ensures a perfectly balanced system. The unique twin speakers (on the left and right of the mask) provide the ultimate in speech clarity with a surround sound output. Depending on your requirements the FPS-COM system can be easily integrated into your existing radio system. Fully submersible, the FPS-COM system can be effectively cleaned without being removed from the face mask.

HUD SYSTEM

No matter what the environment conditions are the new Dräger HUD system will always provide valuable cylinder information directly to the firefighter. The HUD is positioned inside the mask for maximum protection and performance. The HUD provides cylinder content information, 50% cylinder content warning, and SCBA systems alert warning as well as providing buddy light information. Waterproof, robust and reliable and using the latest wireless technology the HUD can be easily installed in seconds.

Drägersafety

Modularity
The Dräger FPS 7000 face mask was developed as a result of us listening and paying close attention to our customers. The Dräger FPS 7000 face mask provides maximum flexibility for fire departments, flexible options that are quick to attach and ready to use.

Dräger FPS 7000 – another quality product from Dräger.

TECHNICAL DATA

Mask body	Convenient, hypoallergenic remover...and/or EPDM (dermatologically tested)
Harness	5-point connection with a large contact surface area at the back of the head, alternatively a hairnet
Size	Mask body in 3 sizes (S, M and L) compatible with inner mask in 3 different sizes
Visor	Polycarbonate visor available with anti-scratch and anti-fog coatings
Connector	P type plug-in connector
Weight	approx. 1.32 lbs / 600 g (varies according to version)
Approval	NIOSH, NFPA, CBRN, EN 136 Class 3

OVERVIEW OF PART NUMBERS*

Dräger FPS 7000 Series

	Connector	Material	Size (mask/inner mask)	Visor	Adaptation system	Part number
Dräger FPS 7700	**P-connector**					
Dräger FPS 7700		EPDM	M2	PC	CR	**R56200**
		EPDM	S1	PC	CR	**R56249**
		EPDM	L2	PC	CR	**R56300**
		EPDM	M2	PC	S-fix	**R56309**
		EPDM	S1	PC	S-fix	**R56505**
		EPDM	L2	PC	S-fix	**R56506**

*Additional versions are also available. Please contact your sales representative for additional information.

PC=Polycarbonate

4100 | PI | USA | October 22, 2008 | subject to modification!

DRAEGER SAFETY, INC
101 Technology Drive
Pittsburgh, PA 15275-1057
USA
Tel. 1-4127-8383
Fax 1-412-787-2207
www.draeger.com

CUSTOMER SERVICE
Tel. 1-800-858-1737
Fax 1-800-922-5519

TECHNICAL SERVICES
Tel. 1-888-794-3806
Fax 1-888-794-3807

DRAEGER SAFETY CANADA LTD.
7555 Danbro Crescent
Mississauga, ON L5N-6P9
Canada
Tel. 1-905-821-8888
Fax 1-905-821-2565

CUSTOMER SERVICE
Tel. 1-877-372-4371
Fax 1-800-Fax-Tuho

DRAEGER SAFETY S.A. DE C.V.
Av. Peñuelas No. 5
Bodega No. 37
Fraccionamiento Industrial
San Pedrito
Querétaro, Qro. C.P. 76148
Mexique

Tel. 1-52-442-246-1113
Fax 1-52-442-246-1114

DRÄGER AIRBOSS® RIT LIFEGUARD

Rapid Intervention Teams require specialized and rugged equipment to rescue victims or downed firefighters. The Dräger AirBoss® RIT LifeGuard will accommodate your choice of a 30, 45 or 60 minute 4500 psi cylinder in a heavy-duty, padded and fire resistant, cordura bag. Air is delivered by the same high-performance pneumatics found on the Dräger AirBoss® SCBA delivering in excess of 1000 liters/minute if needed. The cylinder is wrapped in a rugged Cordura bag with two large storage pockets and 2 "D" rings to attach other equipment.

ORDER INFORMATION

AirBoss® LifeGuard Includes: Carrying bag, 3 ft. medium pressure version hose with female coupling and first stage pressure reducer (without cylinder). See page 32 for available cylinders.	40 56 460
For use with the SCBA's RIC UAC	
5 ft. high pressure fill line without gauge	40 57 070
10 ft. high pressure fill line without gauge	40 57 069
5 ft. high pressure fill line with gauge	40 57 068
10 ft. high pressure fill line with gauge	40 57 067
For use with both Medium Pressure and RIC UAC	
Dual line without whistle with bag	40 57 452
Dual line without whistle pneumatics only - no bag	40 57 448
Dual line with whistle with bag	40 57 454
Dual line with whistle pneumatics only - no bag	40 57 450

DRÄGER MULTI-LINK AUXILIARY AIRLINE SYSTEM

Dräger offers the new Multi-Link Auxiliary Airline System in 20-inch and 40-inch line lengths which provides increased versatility and safety. Attaching directly to the first stage reducer, the Multi-Link system features a unique easy to use Y piece with female and male CEJN fittings. This unique configuration allows rapid connection to either an air-line source i.e. RIT pack or in extreme emergency cases to another Multi-Link Auxiliary Airline. A Nomex pouch is provided with the system and attaches to the waist belt for convenient storage and easy retrieval.

D-25025-2010

ORDER INFORMATION

Dräger Multi-link Buddy Breather Pouch	40 58 231
Dräger Multi-link Buddy Breather 20" with Pouch	40 58 602
Dräger Multi-link Buddy Breather 40" with Pouch	40 58 601

Dräger UCF® 6000 Thermal Imaging Camera

Affordable imager optimized for firefighting

Missing important details at a fire scene can place lives at risk. But fire, smoke and darkness make visibility and navigation difficult. The NFPA 1801-2013 certified UCF® 6000 thermal imaging camera gives you valuable information in hazardous situations. The device is extremely easy to use and designed to be operated with one hand.

- 160 × 120 pixel resolution provides superior image quality
- UL Class 1 Division 2 design is intrinsically safe
- Brightness sensor adapts display to all lighting conditions (no need to cup hands over screen)
- Integrated laser pointer pinpoints hazards and aids communication
- Snapshot function allows freeze-frame imaging of difficult areas
- Image display maintains a vertical orientation for accurate viewing
- One-hand operation for ease of use and enhanced mobility
- Lightweight and ergonomic design minimizes fatigue
- Extended life battery supports confidence and peace of mind

KNOW BEFORE YOU GO

Whether performing search and rescue, finding hotspots, or locating potential hazards, the Dräger UCF 6000 is the ideal thermal imaging system. Meeting the diverse needs of today's firefighters, the UCF 6000 is designed to optimize image quality, simplify operation, improve ergonomics, and offer expanded features. The result is an innovative and rugged thermal imaging camera that combines accurate, reliable performance with ease of use in the most challenging situations. Dräger combines superior technology with quality manufacturing to create imagers that can help you "know before you go".

IMPROVED VIEWING

The Dräger UCF 6000 provides excellent image quality in settings where fire, smoke, and darkness obscure visibility and make navigation difficult. A resolution of 160 × 120 pixels and a wide field of view (47°) provide the necessary image sharpness and dynamic range to stay safe – and get the job done right. The UCF 6000 also features an automatic brightness sensor, so you don't have to "shadow" the display when operating the camera in direct sunlight. The UCF 6000 also has the ability to provide high-quality images across a broad range of temperatures. By providing clear and consistent imaging, the UCF 6000 makes it possible to accurately and quickly scan rooms and the surrounding vicinity in situations where every second counts.

D-16644-2014

Dräger® UCF 6000 NFPA-certified thermal imaging camera

DRÄGER UCF 6000

RELIABLE AND RUGGED

Even in the most hostile environments where other imaging cameras fail, the UCF 6000 can be depended on to provide critical information quickly and easily, so you can focus more on the task at hand and less on the equipment. The Dräger UCF 6000 is equipped with an extremely rugged and durable housing that resists heat, water, smoke, and dust. This enables the UCF 6000 to withstand the rigors of firefighting, including damage from accidental drops and fumbles. Additionally, modern lithium-ion battery technology powers the UCF 6000 for up to 4 hours. This extended period of operation simplifies use and gives you peace of mind during extended firefighting operations.

EXPANDED UTILITY

The Dräger UCF 6000 is designed for functionality and ease of use in difficult and dangerous settings where firefighters routinely work. The "snapshot" function enables you to "see around corners" by providing a temporary freeze-frame of the thermal image. This is particularly useful when your freedom of movement is limited, enabling you to evaluate hard-to-reach areas quickly and safely.

To aid communication among firefighters, the integrated laser pointing feature allows you to point to hotspots and other areas of concern without changing your grip on other equipment. This enables you to illustrate a recommended plan of attack to fellow firefighters. The enhanced dynamic range of the UCF 6000 optimizes resolution at high temperatures and makes it possible to quickly identify cooler objects, such as victims and other firefighters, within the immediate vicinity of a fire.

CONVENIENT OPERATION

As a true one-handed thermal imaging device, the Dräger UCF 6000 leaves your other hand free at all times. This ease of use is an invaluable benefit, adding safety as well as freedom of movement. The compact UCF 6000 weighs only 2.9 lbs, making the camera easy to operate without excess fatigue during extended firefighting operations. The intuitive design of the camera means there's less distraction in difficult and stressful situations.

Another benefit of the UCF 6000 is the sturdy, detachable crawling plate that allows you to safely put your weight on the camera while crawling.

STANDARD USB INTERFACE

The Dräger UCF 6000 has a USB 2.0 interface, which makes it possible to configure the camera and transfer the thermal image directly to a PC.

The Dräger UCF 6000 is shipped with a USB cable, detachable crawling plate, and PC software.

TECHNICAL DATA

Dräger UCF® 6000	
Dimensions of camera (W × H × D)	4.92 × 11 × 4.33 inches (125 × 280 × 110 mm)
Weight	2.9 lbs (1,335 g) including battery
Display	
Technology	Liquid cristal display (LCD)
Size (diagonal)	3.5 inches (9 cm)
Housing	
Protection cover	Rubber material EPDM
Carrying loops	High-temperature resistant material
Housing material	High-temperature resistant plastic
Protection class	IP67
Infrared specifications	
Type of sensor	a-Si Microbolometer Array
Resolution	160 × 120 pixels
IR spectral	7 to 14 µm
Temperature sensitivity	Approximately 0.063°F (0.035°C)
Picture frequency	50 Hz
Optics	
Material	Germanium
Focus	From 3.2808 ft (1 m) to infinity
Field of view	Horizontal: 47° / Vertical: 32° / Diagonal: 62°
Operation	
Operation time (at 73.4°F/23°C) with battery	Approximately 4 hours
Temperature measurement	Digital display: -40°F to 1,832°F (-40°C to 1,000°C)
Operating temperature	-40°F to 185°F (-40°C to 85°C)
Battery technology	Rechargeable lithium-ion batteries
Battery display	Precise 4-level battery indicator
Approvals	NFPA 1801-2013

ORDERING INFORMATION

Dräger UCF® 6000	
Dräger UCF® 6000 (50 Hz)	83 21 130
Accessories	
Transport case	83 21 099
Neck strap	83 23 031
Retractable lanyard	83 23 032
Hand support loop	83 23 033
Lithium-Ion battery	83 21 242
Battery charger	83 21 247
Power supply for charger	83 16 994
Truck charging kit (bracket and 12–30 V-cable)	83 21 211
Suction tripod (e.g., for mounting on vehicle roof)	83 23 070
Tripod	83 21 254
Universal clamp	83 21 259
12 V-adapter for operations with tripod	In preparation
12 V-power supply for operations with tripod	83 16 994

Included in scope of delivery

Thermal Imaging Camera with integrated laser pointer and "snapshot"-function, 1 battery, 1 charger, USB-cable, detachable crawling plate, PC-software, instructions for use and brief instruction.

UCF® is a trademark of Dräger.

CORPORATE HEADQUARTERS
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lubeck, Germany

www.draeger.com

Manufacturer:
Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lubeck, Germany

Locate your Regional Sales Representative at:
www.draeger.com/contact

CANADA
Draeger Safety Canada Ltd.
2425 Skymark Avenue, Unit 1
Mississauga, Ontario, L4W 4Y6
Tel +1 905 212 6600
Toll-free +1 877 Drager 1
(+1 877 372 4371)
Fax +1 877 651 0902
Toll-free Fax +1 800 329 8823

MEXICO
Draeger Safety S.A. de C.V.
German Centre
Av. Santa Fe, 170 5-4-14
Col. Lomas de Santa Fe
01210 México D.F.
Tel +52 55 52 61 4000
Fax +52 55 52 61 4132

Customer Service
Tel 800 723 3891

REGION CENTRAL AND SOUTH AMERICA
Dräger Panama Comercial
S. de R.L.
Complejo Business Park
V tower, 10th floor, Panama City
Tel +507 377-9100
Fax +507 377-9130
contactcsa@draeger.com

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Customer Service
Tel 800 858 1737
Fax 800 922 5519

Technical Service
Tel 888 794 3806
Fax 888 794 3807

Dräger UCF® 7000 Thermal Imaging Camera

Three additional operating modes

Today, any call could potentially bring you into a hazardous area. The Dräger UCF® 7000 thermal imaging camera is intrinsically safe, NFPA 1801-2013 certified, and offers new levels of security and reliability in potentially hazardous settings. Technologically advanced yet easy to use with one hand, the UCF® 7000 provides accurate and clear imaging in any situation.

- 160 × 120 pixel resolution and 2× zoom provide a detailed view of the situation
- UL Class 1 Division 2 design is intrinsically safe
- 3 application-specific modes let you optimize the display for firefighting, search and rescue, and hotspot identification
- One-hand operation provides ease of use and enhanced mobility
- Brightness sensor adapts the display to all lighting conditions
- Integrated laser pointer pinpoints hazards and aids communications
- Image display maintains a vertical orientation for accurate viewing
- Snapshot function allows freeze-frame imaging of difficult areas
- Lightweight and ergonomic design helps minimize fatigue
- Integrated video and sound recording supports safety training and more
- Extended life battery supports confidence and peace of mind

D-16641-2014

Dräger UCF® 7000 NFPA-certified thermal imaging camera

KNOW BEFORE YOU GO

The Dräger UCF 7000 thermal imaging camera is intrinsically safe and provides peace of mind and an increased ability to focus on the mission. The UCF 7000 provides high image quality, improved ergonomics, and other benefits in emergency response situations. The result is a high performance thermal imaging camera that is rugged, innovative, and easy to use.

The UCF 7000 provides valuable information about rapidly changing conditions when fire, smoke and darkness create a challenging and dangerous environment. The UCF 7000 can help you navigate difficult areas, locate people and hotspots, and protect your personal safety.

MADE FOR PROFESSIONALS

The Dräger UCF 7000 sets new standards in safety, reliability, ease of use, and operational support in demanding emergency settings. The device is equipped with innovative features designed to meet the needs of today's emergency responders. The UCF 7000 is easy to use and delivers excellent image quality with application-specific displays designed to enhance image clarity and facilitate fast assessment.

DRÄGER UCF 7000

COMFORTABLE ONE-HAND OPERATION

The compact and well-balanced UCF 7000 weighs only 2.9 lbs, making it easy to operate with just one hand. As a result, you'll always have your other hand free. The intuitive operation makes it possible to use the camera's functionality to the fullest extent in highly stressful situations. A sturdy detachable crawling plate allows you to put your weight on the camera while crawling. The UCF 7000 offers various carrying options for optimal comfort and portability.

BETTER OVERVIEW, MORE DETAILS

The Dräger UCF 7000 provides excellent image quality in settings where visibility is extremely limited. The resolution of 160 × 120 pixels and 2× zoom provide detailed images in any setting, allowing you to search rooms, hallways, and other areas in the immediate vicinity quickly and safely.

Three application-specific operating modes make it possible to optimize the image display for the specific task at hand, simply by pushing a button. In addition to thermal imaging, these operating modes include:

- Fire (firefighting)
- Persons (search and rescue)
- ThermalScan (highlight a set temperature threshold to search for hotspots during overhaul)

This flexibility gives you the most useful information in any situation.

EXTENDED FUNCTIONALITY

Optimized image processing provides a quick overview in just seconds. The "snapshot" function provides a temporary freeze-frame thermal image which can then be viewed on the display. This feature makes it possible to "see around corners" when your freedom of movement or field of view are limited, enabling you to assess particularly difficult areas quickly and safely.

The integrated laser pointer lets you point out the location of hot spots and other hazards and define the plan of attack to other team members.

The UCF 7000 provides high resolution thermal images, even in the hottest

environments. This makes it possible to detect cooler objects such as people in the vicinity of a fire with the best possible resolution. Integrated video and sound recording capabilities are part of the UCF 7000.

EXTREMELY ROBUST

The UCF 7000 is robust and rugged for extended use in the most hostile environments. With an extremely durable housing, the UCF 7000 is heat-resistant and withstands mechanical stresses with ease. The device has a high protection classification of IP67 and is resistant to water, dust, and other contaminants typically encountered during emergency response situations. Modern lithium-ion battery technology enables the UCF 7000 to operate for up to four hours, giving you peace of mind during extended operations.

SAFE IN EXPLOSIVE ENVIRONMENTS

An explosive atmosphere is always a concern on calls where there is no fire. In this setting, the equipment must not be a source of ignition. The UCF 7000 is the tool of choice even in this type of situation because it is intrinsically safe and approved for use in potentially explosive atmospheres including zone 1 according to ATEX.

STANDARD USB INTERFACE

The UCF 7000 has a standard USB 2.0 interface, making it possible to configure the camera and transfer thermal images directly to a PC. Images and video sequences recorded for documentation purposes can also be transferred to a PC.

The UCF 7000 is shipped complete with USB cable, detachable crawling plate, and PC software CD.

TECHNICAL DATA

Dräger UCF® 7000	
Dimensions of camera (W × H × D)	4.92 × 11 × 4.33 inches (125 × 280 × 110 mm)
Weight	2.9 lbs (1,335 g) including battery
Display	
Technology	Liquid cristal display (LCD)
Size (diagonal)	3.5 inches (9 cm)
Housing	
Protection cover	Rubber material EPDM
Carrying loops	High-temperature resistant material
Housing material	High-temperature resistant plastic
Protection class	IP66 and IP67
Infrared-specifications	
Type of sensor	a-Si Microbolometer Array
Resolution	160 × 120 pixels
IR spectral	7 to 14 µm
Temperature sensitivity	Approximately 0.063°F (0.035°C)
Picture frequency	25 Hz
Optics	
Material	Germanium
Focus	From 3.2808 ft (1 m) to infinity
Field of view	Horizontal: 47° / Vertical: 32° / Diagonal: 62°
Operation	
Operation time (at 73.4°F/23°C) with battery	Approximately 4 hours
Temperature measurement	Digital display: -40°F to 1,832°F (-40°C to 1,000°C)
Operating temperature	-40°F to 185°F (-40°C to 85°C)
Battery technology	Rechargeable lithium-ion batteries
Battery Display	Precise 4-level battery indicator
Approvals	NFPA 1801-2013 ATEX ib T4 (Zone 1)

ORDERING INFORMATION

Dräger UCF® 7000	
Dräger UCF® 7000 (25 Hz)	83 21 140
Accessories	
Transport case	83 21 099
Neck strap	83 23 031
Retractable lanyard	83 23 032
Hand support loop	83 23 033
Lithium-ion battery (with Ex-approval)	83 21 242
Battery charger	83 21 247
Power supply for charger	83 16 994
Truck charging kit (bracket and 12–30 V-cable)	83 21 110
Suction tripod (e.g., for mounting on vehicle roof)	83 23 070
Wall mounting	83 23 071
Tripod	83 21 254
Universal clamp	83 21 259
12 V-adapter for operations with tripod	In preparation
12 V-power supply for operations with tripod	83 16 994

Included in scope of delivery

Thermal Imaging Camera with integrated laser pointer, "snapshot function", 2× zoom, 3 additional application modes ("Application switch"), e.g. ThermalScan and video- and sound recording, 1 battery and 1 charger. Add. with USB-cable, detachable crawling plate, PC-software, instructions for use and brief instruction.

UCF® is a trademark of Dräger.

CORPORATE HEADQUARTERS
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lubeck, Germany

www.draeger.com

Manufacturer:
Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lubeck, Germany

Locate your Regional Sales Representative at:
www.draeger.com/contact

CANADA
Draeger Safety Canada Ltd
2425 Skymark Avenue, Unit 1
Mississauga, Ontario, L4W 4Y6
Tel +1 905 212 6600
Toll-free +1 877 Drager 1
(+1 877 372 4371)
Fax +1 877 651 0902
Toll-free Fax +1 800 329 8823

MEXICO
Draeger Safety S.A. de C.V.
German Centre
Av. Santa Fe, 170 5-4-14
Col. Lomas de Santa Fe
01210 México D.F.
Tel +52 55 52 61 4000
Fax +52 55 52 61 4132

Customer Service
Tel 800 723 3891

REGION CENTRAL AND SOUTH AMERICA
Dräger Panama Comercial
S. de R.L.
Complejo Business Park
V tower, 10th floor, Panama City
Tel +507 377-9100
Fax +507 377-9130
contactcsa@draeger.com

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Customer Service
Tel 800 858 1737
Fax 800 922 5519

Technical Service
Tel 888 794 3806
Fax 888 794 3807

Communications & Sales Marketing | PR | Printed in USA | Chlorinfreie – umweltverträglich gebleicht | Subject to modifications | © 2015 Dräger Werk AG & Co. KGaA

Dräger

Dräger UCF® 8000 Thermal Imaging Camera

Affordable, high-resolution imaging

Fires and other hazardous environments pose unseen challenges and dangers. Now you can know before you go with the Dräger UCF® 8000 thermal imaging camera. With first-rate image quality and precision, this NFPA 1801-2013 certified camera is intrinsically safe and approved for use in potentially explosive atmospheres.

- 384 × 288 pixel resolution and 2× zoom provide a highly detailed view of the situation
- UL Class 1 Division 2 design is intrinsically safe
- 3 application-specific modes let you optimize the display for firefighting, search and rescue, and hotspot identification
- One-hand operation provides ease of use and enhanced mobility
- Brightness sensor adapts the display to all lighting conditions
- Integrated laser pointer pinpoints hazards and aids communications
- Image display maintains a vertical orientation for accurate viewing
- Snapshot function allows freeze-frame imaging of difficult areas
- Lightweight and ergonomic design helps minimize fatigue
- Integrated video and sound recording supports safety training and more
- Extended life battery supports confidence and peace of mind

Dräger UCF® 8000 NFPA-certified thermal imaging camera

KNOW BEFORE YOU GO

The Dräger UCF 8000 thermal imaging camera delivers bright images – even in conditions where fire, smoke, and darkness limit visibility and navigation. As a result, you can quickly and safely scan rooms and the surrounding vicinity.

BETTER OVERVIEW, MORE DETAILS

Missing an important detail in a difficult environment can place lives at risk. Because of application-specific operating modes, you can optimize the image display of the Dräger UCF 8000 for the specific task at hand.

These modes include:
- Fire (firefighting)
- Persons (search and rescue)
- ThermalScan (searching for hotspots)

Simply by pressing a button, you can optimize the camera's display for the task at hand, giving you better information in any situation. In addition, the image display maintains a vertical orientation regardless of the camera's position.

EXTREMELY ROBUST

This camera is reliable even in the roughest environments and with the most demanding applications. Equipped with an almost indestructible housing, the

DRÄGER UCF 8000

Dräger UCF 8000 is heat-resistant and withstands usage-specific mechanical stresses with ease. Due to its high protection class of IP67, the camera is resistant to water and dust exposure. Modern lithium-ion battery technology powers the camera for up to four hours – giving you peace of mind during long operations.

COMFORTABLE ONE-HAND OPERATION

The ergonomic design and well-balanced low weight of only 3 lbs makes the Dräger UCF 8000 easy to operate with just one hand. As a result, you'll always have your other hand free. The intuitive operation makes it possible to use the camera safely and use its functionality to the full extent – even in highly stressful situations. A very sturdy detachable crawling plate enables you to put your weight on the camera while crawling. The camera also offers various carrying options for optimal comfort.

SAFE IN EXPLOSIVE ENVIRONMENTS

An explosive atmosphere is always a concern on calls where there is no fire. This means the equipment used must not be a source of ignition. The Dräger UCF 8000 is the tool of choice even in this type of situation because it is intrinsically safe and NFPA 1801-2013 certified.

EXTENDED FUNCTIONALITY

Optimized image processing provides an overview in just seconds. The Dräger UCF 8000 makes it possible to "see around corners" if your freedom of movement or field of view are limited.

The snapshot function provides a temporary freeze-frame of the thermal image, which can then be viewed on the display. This allows you to examine and scan difficult to access areas quickly and safely. The integrated laser pointer simplifies isolating and showing the position of hazards – such as hotspots – to other team members and clearly defines the path of attack.

The Dräger UCF 8000 offers a high temperature resolution in hot environments. This makes it possible to detect cooler objects such as people with best possible resolution – even in the vicinity of a fire. The Dräger UCF 8000 integrates video and sound recording functions, as well as the ability to record single images.

STANDARD USB INTERFACE

The Dräger UCF 8000 is equipped with a standard USB 2.0 interface, which makes it possible to configure the camera (e.g., setting an individual start image) and transfer the thermal image directly to a PC. Recorded images and video sequences used for documentation purposes can also be transferred to a PC.

CONTINUED RECORDING WITH FULL MEMORY CARD

If the camera's recording capacity of approximately two hours is exhausted, the black box ensures further use of the thermal imaging video.

If the memory is full, the camera will automatically record over the beginning of the video.

TECHNICAL DATA

Dräger UCF® 8000	
Dimensions of camera (W × H × D)	4.92 × 11 × 4.33 inches (125 × 280 × 110 mm)
Weight	3 lbs (1.4 kg) including battery
Display	
Technology	Liquid crystal display (LCD)
Size (diagonal)	3.5 inches (9 cm)
Application modes	Standard, Fire, Persons, ThermalScan
Housing	
Protection cover	Rubber material EPDM
Carrying loops	High-temperature-resistant
Housing material	High-temperature-resistant plastic
Protection class	IP67
Infrared specifications	
Type of sensor	a-Si Microbolometer Array
Resolution	384 × 288 pixels
IR spectral	7 to 14 µm
Temperature sensitivity	Approximately 0.063°F (0.035°C)
Picture frequency	50 Hz
Optics	
Material	Germanium
Focus	1 m to infinity
Field of view	Horizontal: 57° / Vertical: 41° / Diagonal: 74°
Operation	
Operation time (at 23°C) with battery	Approximately 4 hours
Temperature measurement	Digital display: -40°F to 1,832°F (-40°C to 1,000°C)
Operating temperature	-40°F to 185°F (-40°C to 85°C) (inside camera), 300°F (150°C) for 20 min, 500°F (260°C) for 10 min
Battery technology	Rechargeable lithium-ion batteries
Battery status display	Precise 4-level battery indicator
Approvals	The Dräger UCF® 8000 meets the following explosion protection regulations: **NFPA 1801-2013 certified** **IEC 60079-0:2007** **IEC 60079-11:2006** **EN 60079-0:2009** **EN 60079-11:2007** **ANSI/ISA 12.12.01** **CAN/CSA E60079-0** **CAN/CSA E60079-11** It is classified as follows: **for the USA and Canada: Class I, Div. 2, Groups A, B, C, D, Class I, Zone 1, Ex ib IIC T4** for Europe: I M2 / II 2G, Ex ib I Mb / Ex ib IIC T4 Gb for Australia: Ex ib IIC T4 Gb

ORDERING INFORMATION

Dräger UCF® 8000	
Dräger UCF® 8000 (50 Hz)	83 25 360

Accessories	
Transport case	83 21 099
Neck strap	83 23 031
Retractable lanyard	83 23 032
Hand support loop	83 23 033
Lithium-ion battery (with Ex-approval)	83 23 075
Battery charger	83 21 247
Power supply for charger	83 16 994
Truck charging kit (bracket and 12–30 V-cable)	83 21 110
Suction tripod, e.g. to mount on truck roof	83 23 070
Tripod	83 21 254
12 V adapter for operations with tripod	83 21 251
12 V power supply for operations with tripod	83 16 994

Included in scope of delivery

Thermal imaging camera with integrated laser pointer, snapshot function, 2× digital zoom, 3 additional application modes (application switch) including ThermalScan function and image and sound storage, 1 battery and 1 charger. Also includes USB cable (camera standard: USB 2.0 interface), attachable crawling plate, PC-software, Instructions for Use and brief instruction.

UCF® is a trademark of Dräger.

CORPORATE HEADQUARTERS
Dragerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lubeck, Germany

www.draeger.com

Manufacturer:
Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lubeck, Germany

Locate your Regional Sales Representative at:
www.draeger.com/contact

CANADA
Draeger Safety Canada Ltd.
2425 Skymark Avenue, Unit 1
Mississauga, Ontario, L4W 4Y6
Tel +1 905 212 6600
Toll-free +1 877 Drager 1
(+1 877 372 4371)
Fax +1 877 651 0902
Toll-free Fax +1 800 329 8823

MEXICO
Draeger Safety S.A. de C.V.
German Centre
Av. Santa Fe, 170 5-4-14
Col. Lomas de Santa Fe
01210 México D.F.
Tel +52 55 52 61 4000
Fax +52 55 52 61 4132

Customer Service
Tel 800 723 3891

REGION CENTRAL AND SOUTH AMERICA
Dräger Panama Comercial
S. de R.L.
Complejo Business Park
V tower, 10th floor, Panama City
Tel +507 377-9100
Fax +507 377-9130
contactcsa@draeger.com

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Customer Service
Tel 800 858 1737
Fax 800 922 5519

Technical Service
Tel 888 794 3806
Fax 888 794 3807

Dräger

Dräger UCF® 9000 Thermal Imaging Camera
The compact camera that gives you the big picture

When you enter an unknown environment, you need all the information you can get – as quickly and easily as possible. The Dräger UCF® 9000 is an intrinsically safe, NFPA 1801-2013 approved thermal imaging camera that produces videos and high-resolution digital images for complex firefighting operations, search and rescue, hazmat and more.

STAY ONE STEP AHEAD

It's reassuring to know that the camera you're carrying is safe to use in a hazardous area. The Dräger UCF 9000 thermal imaging camera is intrinsically safe (UL Class 1, Division 2), which gives you peace of mind and increases your ability to focus on the mission. With ultra high resolution, the UCF 9000 comes equipped with a wide range of innovative features that allow you to use this camera for multiple firefighting and first responder applications. The result is a high performance thermal imaging camera that is rugged, innovative, and easy to use. With Dräger, "Stay One Step Ahead" means having the best technology and equipment available to help you stay ahead of whatever challenges you face, safely and confidently.

SEE EVERYTHING CLEARER

The UCF 9000 offers 44 % more detail than other firefighting thermal imaging cameras and has a wide field of view that lets you see more. Even in areas where visibility is extremely limited, the UCF 9000 provides an image that is ultra clear, giving you more information on which to base tactical decisions. Regardless of the environment, the UCF 9000 display brightness automatically adjusts to give you a clear image to view. An extended dynamic range makes it possible to clearly detect objects and people – even next to extreme heat. An ultrafast shutter provides consistent images and a clear view at all times. The UCF 9000 has a 2× and 4× zoom that gives you the ability to get a closer look at hard to reach areas.

ONE HANDED OPERATION FOR EASE OF USE

The compact, lightweight design of the UCF 9000 lets you select functions using just your thumb and index finger. When it comes to carrying the UCF 9000, it is nice to have several options. A sturdy detachable "crawling plate" lets you safely brace the camera on the ground, providing an additional movement option. The UCF 9000 also offers various carrying options for optimal comfort and portability.

Dräger UCF® 9000 thermal imaging camera

384 × 288 resolution

CONTINUOUS, AUTOMATIC RECORDING

The UCF 9000 has a "black box" that automatically records two hours of video. Even if the memory card is full, the camera will record over the beginning of the memory card. An innovative feature of the UCF 9000 is that you can instantly share videos on the display. Plus, all video and photos can be downloaded to an external device for training or documentation.

MORE MODES FOR MORE TASKS

In addition to the standard thermal mode, the UCF 9000 offers eight additional modes so you can choose the best image for each application:

- Fire (firefighting)
- Persons (search and rescue)
- Thermal Scan (searching for hotspots)
- Outdoor (searching for persons outside)
- Hazard (leak detection and level indicators)
- Scan PLUS (searching for heat sources – in real image)
- Visual (color video camera)
- Custom (User-defined via included software)

EQUIPPED WITH STANDARD UCF TIC II FUNCTIONS

The UCF 9000 has a laser pointer to mark heat sources and point out the fill level of tanks. The "snapshot" function provides a temporary freeze-frame thermal image, which then appears on the display for others to see. This feature makes it possible to see into hard to reach areas or assess particularly difficult areas.

EXTREMELY RUGGED AND DURABLE

The UCF 9000 is designed for extended use in the most hostile environments. With an extremely durable housing, the UCF 9000 is heat resistant, withstands mechanical stresses with ease, has a high protection classification (IP 67), and is resistant to water, dust and other contaminants typically encountered during emergency response situations.

Today's lithium-ion technology provides the UCF 9000 with up to four hours of operating time, giving you peace of mind during extended operation. There is no need to carry spare batteries or change batteries out during a responder event, so you can stay focused on the task at hand. You can extend the camera's battery life by 50 % by activating standby mode. To wake up the camera, simply grab the handle.

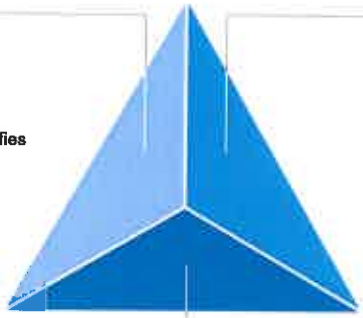
STANDARD USB INTERFACE

The UCF 9000 is supplied with a standard USB 2.0 interface and PC software, making it possible to configure the camera and transfer thermal videos and images directly to a PC.

BENEFITS AT A GLANCE

The high performance Dräger UCF 9000 thermal imaging camera helps operations go faster, safer, and more efficiently

Increased safety
- Provides visibility in temperatures up to 1,842 °F
- 44 % more resolution identifies obstacles
- 4 × zoom
- Automatic display sensor adjusts the brightness to your environment



Increased productivity
- Extended battery life
- Additional color palettes for more applications
- Video playback for instantly sharing images
- Wide 57° field of view
- Laser pointer facilitates communication
- Ability to see around corners with the snapshot feature

Decreased costs
- Exceeds the NFPA 1801 standard for durability
- 2 year warranty on camera

TECHNICAL DATA

Dräger UCF® 9000	
Dimensions of camera (W × H × D)	125 × 280 × 110 mm (4.9 × 11 × 4.3 in.)
Weight	1.4 kg (3 lbs) incl. battery
Display	
Technology	Liquid crystal display (LCD)
Size (diagonal)	9 cm (3.5 inches)
Application modes	Standard, Fire, Persons, Thermal Scan, Outdoors, Hazardous Goods, Scan PLUS, Normal Image, User defined 1
Housing	
Protection cover	Rubber material EPDM
Carrying loops	High-temperature-resistant material
Housing material	High-temperature-resistant plastic
Protection class	IP 67
Infrared specifications	
Type of sensor	a-Si Microbolometer Array
Resolution	384 × 288 pixels
IR spectral	7 to 14 µm
Temperature sensitivity	Typically 0.035 °C (0.063 °F)
Picture frequency	50 Hz
Optics	
Material	Germanium
Focus	1 m to infinity
Field of view	Horizontal: 57° **Vertical: 41°** Diagonal: 74°

Operation	
Operation time (at 73 °F) with battery	Typically 4 hours
Operation time (at 73 °F) with alkaline power pack	Typically 2 hours
Temperature measurement	Digital temperature display: -40 °C ...1,000 °C (-40 °F ... 1,832 °F)
Operating temperature	-40 °C to 85 °C (-40 °F ... 185 °F) (inside camera), 150 °C (300 °F) for 20 min, 260 °C (500 °F) for 10 min
Battery technology	Rechargeable lithium ion batteries
Battery status display	Precise 4-level battery indicator
Approvals	The Dräger UCF® 9000 meets the following regulations: **NFPA 1801-2013 Approved** IEC 60079-0:2007 IEC 60079-11:2006 EN 60079-0:2009 EN 60079-11:2007 ANSI/ISA 12.12.01 CAN/CSA E60079-0 CAN/CSA E60079-11 **It is classified as follows:** **for the USA and Canada UL:** **Class I, Div. 2, Groups A, B, C, D,** **Class I, Zone 1, Ex ib IIC T4** **for Europe: I M2 / II 2G, Ex ib I Mb / Ex ib IIC T4 Gb** **for Australia: Ex ib IIC T4 Gb** Flame test according to EN137:2006

ORDERING INFORMATION

Dräger UCF® 9000	
Dräger UCF® 9000 (50 Hz)	83 21 240

Includes:

Thermal imaging camera with integrated laser pointer, "snapshot function", 2× and 4× digital zoom, 8 additional application modes in addition to the standard mode ("application switch") including thermal scan function (also real image) and image and sound storage as well as direct display function, 1 battery and 1 charger. Also includes USB cable (camera standard: USB 2.0 interface), attachable crawling plate, PC-software, Instructions for Use and brief instruction.

Accessories	
Transport case	83 21 099
Neck strap	83 23 031
Retractable lanyard	83 23 032
Hand support loop	83 23 033
Li-ion battery (with Ex-approval)	83 23 075
Battery charger	83 21 247
Power supply for charger	83 16 994
Vehicle installation kit (bracket and 12 – 30 V-cable)	83 21 110
Suction tripod, e. g. to mount on truck roof	83 23 070
Tripod	83 21 254
Universal clamp	83 21 259
12 V-adapter for operations with tripod	In preparation
12 V-power supply for operations with tripod	83 16 994

Transport case

Battery charger

UCF® is a trademark of Dräger.

UCF® 9000 NFPA

CORPORATE HEADQUARTERS
Dragerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany

www.draeger.com

Manufacturer:
Drager Safety AG & Co. KGaA
Revalstraße 1
23560 Lubeck, Germany

CANADA
Draeger Safety Canada Ltd.
2425 Skymark Ave
Mississauga, Ontario, L4W 4Y6
Tel +1 905 821 8988
Toll-free +1 877 Drager 1
(+1 877 372 4371)
Fax +1 905 821-2566
Toll-free Fax +1 800 329 8823

MEXICO
Draeger Safety S.A. de C.V.
German Centre
Av. Santa Fe, 170 5-4-14
Col. Lomas de Santa Fe
01210 México D.F.
Tel +52 442 246-1113
Fax +52 442 246-1114

Customer Service
Tel 800 723 3891

REGION CENTRAL
AND SOUTH AMERICA
Drager Panama S. de R.L.
Complejo Business Park
V tower, 10th floor, Panama City
Tel +507 377-9100
Fax +507 377-9130
contactcsa@draeger.com

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Customer Service
Tel 800 858 1737
Fax 800 922 5519

Technical Service
Tel 888 794 3806
Fax 888 794 3807

5.46 121 | © 2014 Draeger AG & Co. KGaA

Single Cartridge System – X-plore® 6000 Series

DRÄGER X-PLORE® 6000 SERIES

Dräger's exclusive triple sealing edge means that there are actually three sizes in one mask; therefore, one mask will fit most all users. The centrally located filter allows a wide range of head movement and does not restrict peripheral vision. Users maintain over 90% of their normal vision without distortion. A speaking diaphragm provides clear communications with others.

The Dräger X-plore® 6000 series masks provide optimum protection and comfort with low maintenance.

DRÄGER X-PLORE® 6000 SERIES ORDER INFORMATION

Dräger X-plore® 6300, EPDM Plexiglass lens with integrated bar code, blue plastic lens frame, and glass filled nylon speech diaphragm	R 55 800
Dräger X-plore® 6530, EPDM Polycarbonate lens with integrated bar code, blue plastic lens frame, stainless steel speech diaphragm and neck strap.	R 55 795
Dräger X-plore® 6530 SS, EPDM Polycarbonate lens, stainless steel lens frame, stainless steel speech diaphragm and neck strap	R 51 525
Dräger X-plore® 6570, Blue Silicone Polycarbonate lens with integrated bar code, black plastic lens frame, and stainless steel speech diaphragm	R 55 790
Dräger X-plore® 6570 SS, Yellow Silicone Polycarbonate lens with integrated bar code, stainless steel lens frame, stainless steel speech diaphragm and neck strap	R 51 535

See below for available filters. See page 12 for mask accessories.

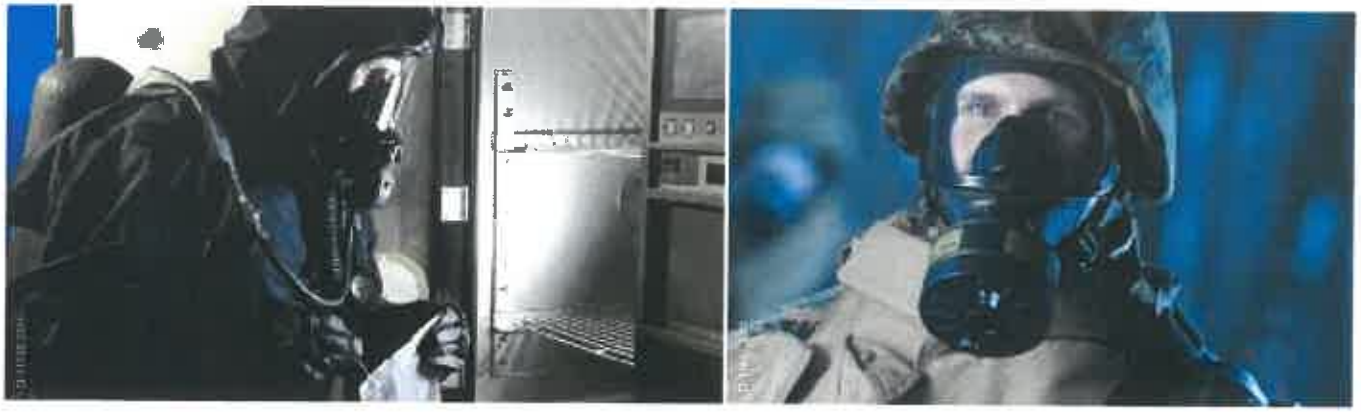
The standard thread connection accepts NATO NBC (Nuclear, Biological, Chemical) cartridges as well as Dräger NIOSH approved single cartridges and our European approved canisters.

EN Canister Guide Color Coding

- AX Organic vapors w/ boiling point <65° C
- A Organic vapors w/ boiling point >65° C
- B Acid gases (e.g. CL, H_2S, HCN)
- E Sulfur dioxide, HCL
- K Ammonia
- CO Carbon monoxide
- Hg Mercury
- NO Nitrous gases
- P Particulates

ORDER INFORMATION

NIOSH Approved	
P100 Cartridge (Box of 8)	67 37 013
Phosphine/Tear Gas/P100	67 37 360
Miscellaneous European Approved (EN) Canisters (see guide to the left)	
NBC Escape (A2 B2-P3)	67 38 783
A2B2	67 38 779
A2B2E2K2 Hg P3	67 38 797
A1B2E2K1 Hg/CO/NO-P3	67 38 801
A2B2E2K2	67 38 804
AX - P3	67 38 862
B2CO-P3	67 38 805



Dräger Law Enforcement and Military Masks

Dräger's personal protection products for are designed to provide the maximum possible degree of protection, together with maximum freedom of movement.

DRÄGER DHR® 7000 AND DRÄGER CDR 4500

One characteristic of superior safety equipment is that it must protect the wearer from environmental dangers – without restricting the ability to work freely and concentrate on the task at hand. Dräger's full-face masks set new standards in personal protection and comfort, with a wide range of sizes for a secure fit. Dräger's full-face masks and filters work together to form a proven solution against biological and chemical warfare agents, as well as hazardous substances.

DRÄGER DHR® 7000 HYBRID SYSTEM

Whether you are military, law enforcement, or responder, this complete, modular system offers you the versatility to adapt to and overcome any situation in CBRN environments. The newly designed Dräger Hybrid Respirator (DHR) 7000 is a mask capable of working in both positive pressure as an SCBA or in negative pressure as an APR or PAPR. Switching between these modes is as simple as flipping a switch and turning the cylinder on or off We have removed lights and alarms that could compromise your position to minimize the effort you need to put into making your equipment swift and silent.

DRÄGER CDR 4500 FULL FACE MASK

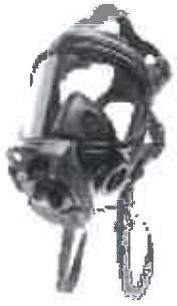
The Dräger CDR 4500 full face mask offers complete protection of the respiratory organs and face from harmful gases and particles in the ambient air. The elastomer mask body is extremely resistant to chemicals and mechanical impact. The emergency response teams appreciate its simple handling, outstanding comfort and excellent fit for a wide range of head and face sizes. A neck strap is supplied as standard.

The Dräger CDR 4500 full face mask was specifically designed for use in civil defense and civil protection. When combined with our Cap 1 canister they provide proven protection from a wide variety of potentially hazardous CBRN situations. Dräger's exclusive triple sealing edge means that there are actually three sizes in one mask, thus reducing your logistics and inventory. The centrally located filter allows a wide range of head movement and does not restrict peripheral vision.

Dräger's Cap 1 CBRN Canister offers one of the longest available shelf-life of any canister on the market (minimum 10 years). Along with its lightweight and small size, this canister is sure to suit your requirements.

ORDER INFORMATION

Dräger DHR Mask		
DHR 7000, Medium, Hydration right, Installed MS-Com Holder		R 58 492
DHR 7000, Medium, Hydration right		R 57 970
DHR 7000, Medium, without Hydration		R 58 480
Also available in small or large with MS-COM and Hydration options		On Request
NIOSH CBRN Approved - Dräger CDR 4500 Full Face Mask		
Universal size, three sizes in one, EPDM mask body, black plastic lens frame, polycarbonate lens, neck strap, stainless steel speech diaphragm		R 55 440
CDR 4500 same as above, but with black stainless steel lens frame		
	Small	R 55 575
	Medium	R 55 710
	Large	R 55 580
CAP1 Canister (CBRN approved with CDR 4500)		67 38 146
See additional accessories on page 15.		
Dräger Defense Filters		
Cap 1 canister (CBRN approved with CDR 4500)		67 38 146
NBC Escape (EN approved)		67 35 896
F2000 NBC canister, plug-in for M2000		67 38 010
See additional accessories on page 12.		



D-31345-2311

Dräger DHR 7000 full-face mask

ST-1278-2024

Dräger CDR 4500 full-face mask

Dräger CBRN Cap 1 Canister

Dräger

Dräger Pac® Series Single Gas Detectors

The Dräger Pac® series is composed of fast, accurate, reliable and easy-to-use personal single gas detectors. The devices are extremely robust, featuring clear warning signals and language-free displays. Their cutting-edge sensor technology delivers reliable results every time.

INNOVATIVE DESIGN

Dräger Pac devices are small and portable, but packed with several innovations. The requirements for the various uses and applications in the industrial sector were carefully considered during their development.

ROBUST AND CLEAR

The impact-resistant and chemical-resistant rubber housing meets the requirements of IP68 so that the devices can be exposed to spray water. A stable and rotating alligator clip ensures secure fastening to the clothing of the worker. Hi-Vis colored (yellow for H_2S) overlays help distinguish the gases monitored from a distance.

UNAMBIGUOUS RESULTS

The devices are easy to use with one hand even when wearing gloves and they continuously provide clear and unambiguous results. The large numeric LCD display is designed without text and has a backlight that ensures good readability even in the dark.

In addition to vibration and acoustic multi-tone alarms, the instruments emit an optical alarm signal clearly visible from any direction; the LEDs at the top and bottom of the unit flash brightly.

ADVANCED TECHNOLOGY

Equipped with the latest Dräger XXS miniature sensor technology, Dräger Pac series represents excellence in the field of gas detection. The devices are extremely durable, highly responsive, and have a variety of features for capturing events including the ability to adjust the frequency of functional tests and calibrations individually.

SAFETY FIRST

Maximum safety is ensured even when the device is carried in a pocket or a gas input is accidentally covered. The clever positioning of the sensor allows safe measurements both from above and in front of the device.

Dräger Pac® 3500

Dräger Pac® 5500

Dräger Pac® 7000

D-16525-2009

Key features of the Pac series

D-440-2009

DRÄGER PAC 3500
- Measures carbon monoxide, hydrogen sulfide, or oxygen
- Service life of 2 years
- Event logger for up to 60 events
- Warranty of 2 years
- Rapid functional tests on site

D-537-2009

DRÄGER PAC 5500

All advantages of the Dräger Pac 3500 plus:
- No limit to the service life of the device
- Service:
  Easy to replace batteries and sensors
  Replaceable dust and water filters
- Estimated sensor service life of 5 – 8 years

D-16526-2009

DRÄGER PAC 7000

All advantages of the Dräger Pac 5500 plus:
- Measures carbon dioxide, sulfur dioxide, chlorine, hydrogen cyanide, ammonia, nitrogen dioxide, nitric oxide, phosphine, or organic vapors
- Optional 5 year of warranty* for the H_2S, O_2, and CO devices
- Data logger for storage of gas concentrations and events with date and time (120 hours at 1 record per minute)
- Configurable TWA and STEL alarms
- Recording maximum concentrations
- Automatic function test option

TESTS FOR YOUR SAFETY

According to the international guidelines OSHA – ISEA, IEC 60079-29-2, DIN EN60079-29-2 and 836/BGI testing of gas detection and warning devices function tests and a known concentration of gas in certain specified intervals is required. These tests not only check whether the gas to be measured reaches the sensor through the dust and water filter, they also test whether it is correctly calibrated and the alarms are set correctly and working properly.

The devices of the Pac series feature individually adjustable functional tests and calibration intervals. A warning symbol indicates when a functional test or calibration is required. Depending on the application, the functional test and calibration may have to be carried out daily if the test was not completed successfully.

If the test is not carried out or if it fails, the device can automatically display an error message to inform the user that the device is not operational.

DRÄGER BUMP TEST STATION

The Dräger bump test station is available for the Dräger Pac series devices to carry out the functional tests quickly, easily and without a PC or additional power source.

D-17898-2012

CALIBRATION MADE EASY

Dräger X-dock® gives you full control over your Dräger portable gas detection instruments when regularly using a large number of Pac devices. Automatic bump tests and calibrations with reduced test gas consumption and short test duration save time and money. Extensive documentation and reports keep track of data.

D-17894-2012

ORDER INFORMATION

Dräger Pac® 3500

Description	Measuring range	Alarm threshold A1/A2 (standard)	Measuring	Response time	Order number
Dräger Pac® 3500 CO	0 – 500 ppm	35/50 ppm	1 ppm	15 sec.	45 43 957
Dräger Pac® 3500 H_2S	0 – 100 ppm	10/15 ppm	0.1 ppm	15 sec.	45 43 958
Dräger Pac® 3500 H_2S[1]	0 – 100 ppm	10/15 ppm	0.1 ppm	15 sec.	45 43 963
Dräger Pac® 3500 O_2	0 – 25 Vol.-%	19.5/23.5 Vol.-%	0.1 Vol.-%	10 sec.	45 43 959
Dräger Pac® 3500 O_2[2]	0 – 25 Vol.-%	19.5/23.5 Vol.-%	0.1 Vol.-%	10 sec.	45 43 964

Yellow colored overlays for H_2S devices, 10/Pack	83 20 978
Blue colored overlays for O_2 devices, 10/Pack	83 20 977

Dräger Pac® 5500

Description	Measuring range	Alarm threshold A1/A2 (standard)	Measuring	Response time	Order number
Dräger Pac® 5500 CO	0 – 500 ppm	35/50 ppm	1 ppm	15 sec.	45 43 960
Dräger Pac® 5500 H_2S	0 – 100 ppm	10/15 ppm	0.1 ppm	15 sec.	45 43 961
Dräger Pac® 5500 H_2S[1]	0 – 100 ppm	10/15 ppm	0.1 ppm	15 sec.	45 43 965
Dräger Pac® 5500 O_2	0 – 25 Vol.-%	19/23 Vol.-%	0.1 Vol.-%	10 sec.	45 43 962
Dräger Pac® 5500 O_2[2]	0 – 25 Vol.-%	19.5/23.5 Vol.-%	0.1 Vol.-%	10 sec.	45 43 966

Yellow colored overlays for H_2S devices, 10/Pack	83 20 978
Blue colored overlays for O_2 devices, 10/Pack	83 20 977

Dräger Pac® 7000

Description	Measuring range	Alarm threshold A1/A2 (standard)	Measuring	Response time	Order number
Dräger Pac® 7000 H_2S[1]	0 – 100 ppm	10/20 ppm	1 ppm	15 sec.	83 18 674
Dräger Pac® 7000 H_2S[2]	0 – 100 ppm	10/20 ppm	1 ppm	15 sec.	83 18 971
Dräger Pac® 7000 H_2S[1]	0 – 100 ppm	Customer request	1 ppm	15 sec.	83 18 677
Dräger Pac® 7000 H_2S[2]	0 – 100 ppm	10/20 ppm	0.1 ppm	15 sec.	83 21 004
Low concentration					
Dräger Pac® 7000 O_2[1]	0 – 25 Vol.-%	19/23 Vol.-%	0.1 Vol.-%	10 sec.	83 18 675
Dräger Pac® 7000 O_2[2]	0 – 25 Vol.-%	19.5/23.5 Vol.-%	0.1 Vol.-%	10 sec.	83 18 972
Dräger Pac® 7000 O_2[1]	0 – 25 Vol.-%	Customer request	0.1 Vol.-%	10 sec.	83 18 678
Dräger Pac® 7000 CO[1]	0 – 1,999 ppm	30/60 ppm	1 ppm	15 sec.	83 18 673
Dräger Pac® 7000 CO[2]	0 – 1,999 ppm	35/50 ppm	1 ppm	15 sec.	83 18 970
Dräger Pac® 7000 Cl_2	0 – 20 ppm	0.5/1.0 ppm	0.05 ppm	30 sec.	83 18 978
Dräger Pac® 7000 HCN	0 – 50 ppm	2.5/4.5 ppm	0.1 ppm	15 sec.	83 18 973

[1] Standard configuration Europa

[2] Standard configuration North America

ORDER INFORMATION CONTINUED

Dräger Pac® 7000 NH_3	0 – 300 ppm	25/50 ppm	1 ppm	20 sec.	83 18 979
Dräger Pac® 7000 NO_2	0 – 50 ppm	2.5/5.0 ppm	0.1 ppm	15 sec.	83 18 977
Dräger Pac® 7000 NO	0 – 200 ppm	2.5/5.0 ppm	1 ppm	15 sec.	83 21 263
Dräger Pac® 7000 PH_3	0 – 20 ppm	0.1/0.2 ppm	0.01 ppm	10 sec.	83 18 974
Dräger Pac® 7000 OV	0 – 200 ppm	5/10 ppm	0.5 ppm	100 sec.	83 21 006
Dräger Pac® 7000 OV-A	0 – 200 ppm	5/10 ppm	1 ppm	100 sec.	83 21 007

5-year warranty (excl. filter and battery)

Dräger Pac® 7000 5Y H_2S	0 – 100 ppm	10/20 ppm	1 ppm	15 sec.	83 21 032
Dräger Pac® 7000 5Y O_2	0 – 25 Vol.-%	19.5/23.5 Vol.-%	0.1 Vol.-%	10 sec.	83 21 033
Dräger Pac® 7000 5Y CO	0 – 1,999 ppm	35/50 ppm	1 ppm	15 sec.	83 21 031

ACCESSORIES FOR THE DRÄGER PAC SERIES

Leather carrying case	45 43 822

Communication accessories

Dräger CC-Vision Basic, free at www.draeger.com	
Communication module, incl. USB cable	83 18 587

Calibration accessories

Calibration adapter	83 18 588
Dräger X-dock® 5300 Pac®	83 21 881
Dräger bump test station for Dräger Pac®, order gas separately	83 17 410

Spare parts

Lithium battery	45 88 183
Sensor filter (4 pcs.)	45 43 836

*on the electronics, with the exception of the battery

CORPORATE HEADQUARTERS
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany

www.draeger.com

Manufacturer:
Dräger Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck, Germany

CANADA
Draeger Safety Canada Ltd.
2425 Skymark Avenue, Unit 1
Mississauga, Ontario, L4W 4Y6
Tel +1 905 212 6600
Toll-free +1 877 Drager 1
(+1 877 372 4371)
Fax +1 877 651 0902
Toll-free Fax +1 800 329 8823

MEXICO
Draeger Safety S.A. de C.V.
German Centre
Av. Santa Fe, 170 5-4-14
Col. Lomas de Santa Fe
01210 México D.F.
Tel +52 442 246-1113
Fax +52 442 246-1114

Customer Service
Tel 800 723 3891

REGION CENTRAL AND SOUTH AMERICA
Dräger Panama Comercial S. de R.L.
Complejo Business Park
V tower, 10th floor, Panama City
Tel +507 377-9100
Fax +507 377-9130
contactcsa@draeger.com

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Customer Service
Tel 800 858 1737
Fax 800 922 5519

Technical Service
Tel 888 794 3806
Fax 888 794 3807

environmentally compatible | Subject to modifications | © 2014 Drägerwerk AG & Co. KGaA

Dräger

Dräger X-am® 2500 Multi-Gas Monitor

Dräger's X-am® 2500 accurately detects O_2, CO, NO_2, SO_2 and H_2S and is the only 1-4 gas monitor you need in industrial, mining and refinery applications. The X-am 2500 combines reliable sensor technology with long battery life and intuitive operation in an instrument that defines safety.

MATRIX DISPLAY

The X-am 2500 has a large, easy to read, liquid-crystal display. All gas readings are shown simultaneously and resize automatically depending on the number of sensors installed. When a gas alarm occurs, the reading for the sensor in alarm will be highlighted and will alternate with the alarm level indication of A1 or A2.

HIGH CAPACITY BATTERY

The Dräger X-am 2500 can operate for more than 12 hours with either alkaline batteries or with rechargeable NiMH batteries. Depending on the requirements, the batteries can be charged either in the workshop or in a vehicle. Operating time without an Ex sensor installed is typically more than 250 hours.

X-DOCK COMPATIBILITY

The X-am 2500 is compatible with Dräger's X-dock testing and calibration station. X-dock is Dräger's new solution for efficient maintenance and comprehensive equipment management. Used for functional testing and complete documentation, X-dock can complete bump tests in 8 to 15 seconds with more than 40 % less gas consumption than competitive instruments. The X-am 2500 is also compatible with the Dräger Bump Test Station.

LONG-LASTING, RELIABLE SENSOR TECHNOLOGY

The innovative, catalytic Ex sensor has a high degree of drift stability with a high resistance to silicone and hydrogen sulfide. The sensor boasts an expected service life of more than five years and is extremely sensitive to flammable gases and vapors. Further, the X-am 2500 is approved for measuring from methane to nonane, according to IEC/EN 60079-29-1.

ZONE 0 APPROVED

The Dräger X-am 2500 has Ex approval for zone 0 for user safety in areas subject to explosion hazard. Additionally, it is not sensitive to electromagnetic radiation, e.g. from wireless devices and is water and dust resistant in accordance with protection class IP 67.

D-59025-2012

Dräger X-am® 2500
Robust 1 to 4 gas detector for personal protection.

DRÄGER X-AM 2500

Safe gas entry
Gas entry from 2 sides.

Visual alarm
Alarm visible across 360°.

Robust design
Water and dust resistant in acc. with IP 67.

Crocodile clip
Secure attachment.

Dräger sensors
Quick, precise, long service life.

Large display
All values at a glance.

DIFFUSION OR PUMP

An optional external pump with a hose up to 98 ft long is available for use in tanks and shafts or when searching for leaks. The switch from diffusion to pump operation can be handled quickly and easily without tools or screws.

ERGONOMIC AND ROBUST

The Dräger X-am 2500 is comfortably worn thanks to its low weight and ergonomic design and gas can enter the unit from above and from the front – even if the instrument is inside a pocket or if the front gas entry is accidentally covered.

The practical two button control panel and easy menu navigation allow for intuitive operation while the integrated protective rubber coating and sensors not sensitive to shock provide additional safety in case of impacts or vibrations.

PEAK VALUE FUNCTIONALITY

The X-am 2500 can store the highest gas readings for the Ex and toxic gas sensors and the lowest reading for the O_2 sensor. These readings can be easily reset after a gas exposure without having to turn the monitor off and on.

Dräger X-am® 2500
with the optional Dräger X-dock testing and calibration station. Robust design Water and dust resistant in acc. with IP 67.

Dräger X-am® 2500
Flexible with external pump for clearance measurements.

Dräger X-am® 2500
Reliable personal protection, e.g. in confined space entry.

ORDERING INFORMATION

X-AM® 2500 NIMH	ORDER NO.
X-am® 2500 Ex/CO, NiMH w/charger kit	45 42 283
X-am® 2500 Ex/H_2S, NiMH w/charger kit	45 42 285
X-am® 2500 Ex/O_2/CO/H_2S, NiMH w/charger kit	45 42 261
X-am® 2500 Ex/O_2/CO/NO_2, NiMH w/charger kit	45 42 263
X-am® 2500 Ex/O_2/CO, NiMH w/charger kit	45 42 265
X-am® 2500 Ex/O_2/H_2S, NiMH w/charger kit	45 42 267
X-am® 2500 Ex/O_2, NiMH w/charger kit	45 42 269
X-am® 2500 O_2/CO/H_2S-LC NiMH w/charger kit	45 42 273
X-am® 2500 Ex, NiMH w/charger kit	45 42 271
X-am® 2500 O_2/CO NiMH w/charger kit	45 42 275
X-am® 2500 O_2/H_2S-LC NiMH w/charger kit	45 42 277
X-am® 2500 Ex/O_2/H_2S-LC/SO_2 NiMH w/charger kit	45 42 279

X-am® 2500 Alkaline	
X-am® 2500 Ex/O_2/CO/H_2S, Alkaline Battery Pack	45 42 262
X-am® 2500 Ex/O_2/CO/NO_2, Alkaline	45 42 264
X-am® 2500 Ex/O_2/CO, Alkaline Battery Pack	45 42 266
X-am® 2500 Ex/O_2/H_2S, Alkaline Battery Pack	45 42 268
X-am® 2500 Ex/O_2, Alkaline Battery Pack	45 42 270
X-am® 2500 Ex, Alkaline Battery Pack	45 42 272
X-am® 2500 O_2/CO/H_2S-LC Alkaline	45 42 274
X-am® 2500 O_2/CO Alkaline	45 42 276
X-am® 2500 O_2/H_2S-LC Alkaline	45 42 278
X-am® 2500 Ex/O_2/H_2S-LC/SO_2 Alkaline	45 42 280
X-am® 2500 CO/H_2S, Alkaline Battery Pack	45 42 282
X-am® 2500 Ex/H_2S, Alkaline Battery Pack	45 42 286
X-am® 2500 Ex/CO, Alkaline Battery Pack	45 42 284

Power Supply Units	
NiMH Battery Pack, X-am 1/2/5000	83 18 704
Battery Holder, Alkaline, 2 "AA"	83 18 703
AA Alkaline Battery (2 req'd)	45 88 195
NiMH Battery Kit	83 18 785
NiMH HC power pack T4	83 22 244
Akaline power pack (w/o batteries)	83 22 237
NiMH HC power pack T4 with charging module and PSU (complete set)	83 22 785

Charging Accessories	
Battery Charge Cradle	83 18 639
Charging kit consisting of a charging module and a single charger (worldwide)	83 20 333
Power Supply, Vehicle Adapter, 12 vdc	45 30 057
Power Supply for up to 2 Charge Cradles	83 15 635
Power Supply for up to 5 Charge Cradles	83 16 994
Power Supply for up to 20 Charge Cradles	83 15 805
Battery Charger Vehicle Mounting kit	83 18 779
Replacement Vehicle Mount Strap X-am® 1/2/5000 Series	83 18 788
Replacement Vehicle Mount Strap X-am® 1/2/5000 Series – US Version	45 43 938

Pump Accessories	
Remote Sampling Pump, X-am® 1/2/5000	83 19 400
X-am® 2500 Confined Space Kit for Ex, O_2, CO and H_2S	45 42 260
Confined Space Entry Set for X-am® 1/2/5000 Pump	45 43 760
Dust/Water Stop Filter for 8319400 Pump	45 43 759
Kit, pump inlet w/nut, X-am® 1-2-5000 Spare	45 94 854
PX2 pump for X-am 125	45 43 982
Hand Pump Kit with 10 ft (3 m) Tygon Tubing	45 94 585
Water Trap, Dust/Mist Filter for Hand Pump Kit	45 23 078
Telescopic Probe, 4.5 feet	45 10 546
Telescopic Probe, 6.5 feet	45 10 545

Pump Accessories	
12" Clear Plastic Sample Probe	45 11 262
Sample Probe Replacement Filters for 4511262	45 11 290
Float Probe (w/out hose)	68 02 337
Float Probe Set hydrogen sulfide-resistant, 5 M (16.4 FT)	83 18 371
Sampling Hose, Tygon (per foot) (not recommended for reactive gases)	45 94 707
Sampling Hose, Reactive Gas, PTFE-Lined (per foot)	45 94 679

Calibration Accessories	
Bump Test Station, X-am® 1/2/5000 w/o gas cylinder	83 19 131
Dräger X-dock 5300 for Dräger X-am 1/2/5000	83 21 880
Other Versions of Dräger X-dock	By Request
50 % LEL CH_4, 100 ppm CO, 25 ppm H_2S, 17 Vol.-% O_2	45 94 655
Calibration/PC Communication Cradle w/o USB-IR Interface	83 18 752

Communication Accessories	
GasVision Software	83 14 034
Dräger CC-Vision	Freeware
DIRA III and USB Communications Cable	83 17 409
Cat Ex 125 PR Combustible Gas Sensor	68 12 950
XXS O_2 Sensor	68 10 881
XXS CO Sensor	68 10 882
XXS H_2S LC Sensor	68 11 525
XXS NO_2 Sensor	68 10 884
XXS SO_2 Sensor	68 10 885

Carrying Accessories	
Deluxe Instrument Case, X-am® 1/2/5000	45 43 755
Deluxe Instrument / Pump Case, X-am® 1/2/5000	45 43 935
Nylon Transport Case (Soft-Side Case)	45 94 631
Molded Plastic Carry Case for Pump and Accessories	83 19 385
Protective Rubber Boot X-am® 1/2/5000	83 21 506
Replacement Grip Clip w/screw	83 18 186

Spare Parts	
Spare front cover X-am® 2500	83 23 921
Keypad overlay X-am® 2500	83 23 923

90 68 228 | 12-13 · Communications & Sales Marketing · FP | Printed in USA | Chlorine-free – environmentally compatible | Subject to modifications | © 2013 Dräger

CORPORATE HEADQUARTERS
Dragerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lubeck, Germany

www.draeger.com

CANADA
Draeger Safety Canada Ltd.
7555 Danbro Crescent
Mississauga,
Ontario L5N 6P9
Tel +1 905 821 8988
Fax +1 905 821 2565

Customer Service
Tel 877 372 4371
Fax 800 329 8823

MEXICO
Draeger Safety S.A. de C.V.
German Centre
Av. Santa Fe, 170 5-4-14
Col. Lomas de Santa Fe
01210 México D.F.
Tel +52 442 246-1113
Fax +52 442 246-1114

Customer Service
Tel 800 723 3891

REGION CENTRAL AND SOUTH AMERICA
Drager Panama S. de R.L.
Complejo Business Park
V tower, 10th floor
Panama City
Tel +507 377-9100
Fax +507 377-9130
contactcsa@draeger.com

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Customer Service
Tel 800 858 1737
Fax 800 922 5519

Technical Service
Tel 888 794 3806
Fax 888 794 3807

Manufacturer:
Drager Safety AG & Co. KGaA
Revalstraße 1
23560 Lubeck, Germany

Dräger

Dräger X-am 5000

The smallest gas detection instrument for up to five gases, the Dräger X-am 5000 belongs to a new generation of detectors developed especially for personal monitoring. It reliably measures oxygen, organic vapors, combustible gases, and harmful concentrations of CO, H_2S, CO_2, Cl_2, HCN, NH_3, NO_2, PH_3, and SO_2 with high sensitivity to keep the user safe.

Equipped with durable XXS sensor technology, the Dräger X-am 5000 offers maximum security at an extremely low operational cost.

AN ERGONOMIC DESIGN FOR EASE OF USE

Besides its advanced functionality, the Dräger X-am 5000's practical "mobile phone" design and light weight make it comfortable to carry. The two-button control panel and easy-to-follow menu system make for intuitive use.

HIGH-PERFORMANCE SENSORS THAT LAST LONGER

The XXS generation of high-performance sensors in the X-am 5000 offers the most longevity on the market. The oxygen sensor has an expected lifetime of five years.

ADAPTABLE SENSOR EXCHANGE FOR MORE VERSATILE DETECTORS

The ability to customize, exchange, upgrade, and calibrate the X-am 5000's sensors easily allows for more applications. This is especially helpful when using rental equipment.

A HYDROGEN-COMPENSATED SENSOR FOR RELIABLE READOUTS

This new CO sensor compensates for hydrogen interference up to 2,000 ppm with less than 1% CO response, meaning your readouts are as reliable as can be.

A RANGE OF SENSITIVITIES FOR AN ADDED MEASURE OF SAFETY

The catalytic Ex sensor measures 0-100% LEL and 0-100% methane concentration. When set for maximum sensitivity, the detector is even more dependable, warning about unknown hazards and specific combustible gases.

A RUGGED DESIGN FOR HARSH CONDITIONS

The Dräger X-am 5000 is tough. It's dust-resistant according to IP67, and remains fully functional even after falling into water. The integrated rubber protection and shock-proof sensors give additional resistance to impact and vibration. Moreover, the Dräger X-am 5000 is insensitive to electromagnetic interference. This means you can count on it even in the harshest conditions.

ST-9468-2007

Dräger X-am 5000: the smallest gas detection instrument for 5 gases.

PRE-ENTRY MEASUREMENTS MADE SIMPLE

An optional external pump operates with a flexible hose up to 20 m long for pre-entry measurements in tanks, shafts, and other confined spaces. The pump starts automatically when the instrument is inserted.

FAST TESTING AND CALIBRATION SOLUTIONS THAT SAVE TIME

Users can choose from a range of practical, on-site solutions for every application, from a function (bump) test to complete documentation. The Dräger E-Cal automatic test and calibration station and the Dräger Bump Test Station are ideal system extensions that save time and reduce workload. Fresh air, mixed gas, and single gas calibrations can be done directly with the Dräger X-am 5000 menu.

FLEXIBLE POWER SUPPLY FOR SUSTAINED USE

The Dräger X-am 5000 can be used with either standard alkaline or rechargeable NIMH batteries. Up to 20 units can be gang charged at with a single power supply.

ORDER INFORMATION

Description	Order No.
X-am 5000 Ex/O_2/CO/H_2S 4-Gas Monitor, NiMH Battery and Charger, No additional toxic gas sensor can be selected	45 43 752
X-am 5000 Ex/O_2/Dual CO/H_2S 4-Gas Monitor, NiMH Battery and Charger, 1 additional toxic gas sensor can be selected	45 43 751
X-am 5000 Ex/O_2/CO 3-Gas Monitor, NiMH Battery and Charger, 1 additional toxic gas sensor can be selected	45 43 753
X-am 5000 Ex/O_2/H_2S 3-Gas Monitor, NiMH Battery and Charger, 1 additional toxic gas sensor can be selected	45 43 750
X-am 5000 Ex/O_2 2-Gas Monitor, NiMH Battery and Charger, 2 additional toxic gas sensors can be selected	45 43 754
X-am 5000 w/o Sensors, NiMH Battery and Charger, 1 CatEx and up to 3 additional toxic gas sensors can be selected	45 43 748

MSHA Approved versions also available for all X-am 5000 units. Call Dräger Customer Service at 800-858-1737

TOTAL CARE AND EXTENDED WARRANTY AGREEMENTS

Total care and extended warranty agreements are available for any monitor/sensor combination.

Please contact Dräger Service at 888-794-3806.

ORDER INFORMATION

Sensors (choose between 1 -4 sensors installed and calibrated)	Order No.
CatEx 125	45 43 775
DrägerSensor XXS O_2	45 43 761
DrägerSensor XXS CO	45 43 762
DrägerSensor XXS H_2S	45 43 763
DrägerSensor XXS NO_2	45 43 764
DrägerSensor XXS SO_2	45 43 765
DrägerSensor XXS PH_3	45 43 766
DrägerSensor XXS HCN	45 43 767
DrägerSensor XXS NH_3	45 43 768
DrägerSensor XXS CO_2	45 43 769
DrägerSensor XXS Cl_2	45 43 770
DrägerSensor XXS OV	45 43 773
DrägerSensor XXS OV-A	45 43 774
DrägerSensor XXS H_2S LC (for low concentrations, 0.1 ppm)	45 43 772
DrägerSensor XXS CO/H_2S	45 43 771
DrägerSensor XXS CO H_2CP (H_2 Compensated)	45 45 454
Special calibration for Ex sensors are available (standard setting: methane)	

Dräger X-am 5000:
Small, ergonomic, robust and water-tight.

Charging accessories	
Charger module	83 18 639
Power pack with connection cable (for worldwide use) for up to 20 charger modules	83 15 805
Power supply (for worldwide use) for up to 5 charger modules	83 16 994
Power supply (for worldwide use) for up to 2 charger modules	83 15 635
12V/24V vehicle connection cable for charger module	45 30 057
Vehicle holder for 1 charger module	83 18 779

Pump accessories	
Dräger X-am 1/2/5000 external pump without hose	83 19 400
Hand pump kit with 10' (3m) Tygon Tubing	45 94 585
Confined Space Entry set for Dräger X-am 1/2/5000 Pump Case with pump and 15' (5m) Tygon Tubing, float probe, spare filter	45 43 760
Filter for Dräger X-am 1/2/5000 Pump, replacement	45 43 759

Calibration accessories	
Calibration cradle for Dräger X-am 1/2/5000	83 18 752
Dräger X-am 1/2/5000 E-Cal module	83 18 754
Dräger Bump Test Station Dräger X-am 1/2/5000 without gas cylinder	83 19 131
Printer set for Dräger Bump Test Station Dräger X-am 1/2/5000 consisting of printer, connection cable, NiMH batteries, USB cable, positioning assistance, CC-Vision®	83 21 011

Accessories for recording measured values and configuration	
Dräger GasVision®	83 14 034
Dräger CC-Vision®	64 08 515
USB DIRA with USB cable	83 17 409
PC communication set 1 Dräger X-am 1/2/5000 with USB cable, Dräger CC-Vision®	83 18 761
PC communication set 2 Dräger X-am 1/2/5000 with USB cable, Dräger CC-Vision® and barcode reader	83 18 762

Carrying cases	
Transport case for Dräger X-am 1/2/5000 Pump and accessories	83 19 385
Leather carrying case for Dräger X-am 1/2/5000 and Pump	45 43 935
Leather carrying case	45 43 755

TECHNICAL DATA

Dimensions (W x H x D)	1.85" x 5.08" x 1.22", (47 x 129 x 31 mm)	
Weight	Approximately 7.8 oz., (220 g)	
Ambient conditions	Temperature	-4 to +122 °F, (-20 to +50 °C)
	Pressure	20.7 to 38.4 inch Hg, (700 to 1300 mbar)
	Humidity	10 to 95% RH
Alarms	Visual	180°
	Audible	Multi-tone >90 dB at 1 ft., (30 cm)
	Vibration	
Battery options	Alkaline, rechargeable NiMH cells for alkaline pack, T4 battery pack	
Operating times	> 12 hours; with pulsed mode > 40 hours (units after Jan. 2009)	
Charging times	< 4 hours	
Data logger	Can be read out via infrared approx. 1000 hours with 5 gases and a recording interval of 1 reading per minute	
Pump operation	Maximum hose length 65.6 ft., (20 M); 30 hours with 3 "AA" alkaline	
Approvals	ATEX	I M1 Ex ia I II 1G Ex ia IIC T3 I M2 Ex d ia I II 2G Ex d ia IIC T4/T3
	UL	Class I & II, Div. 1 Group A, B, C, D, E, F, G T.-Code T4/T3
	CSA	Class I, Div. I Group A, B, C, D, T-Code T4/T3
	MSHA	Pending
	IECEx	Ex ia I Ex ia IIC T3 Ex d ia I Ex d ia IIC T4/T3
	CE mark	Electromagnetic compatibility (directive 89/336/EWG)
	RoHS	Directive 2002/95/EC

90 46 318 | 03 11 | Marketing Communications | LL (IBK | Printed in USA | Environmentally Compatible | Subject to modifications | © 2011 Dräger Safety AG & Co. KGaA

HEADQUARTERS
Dräger Safety AG & Co. KGaA
Revalstrasse 1
23560 Lubeck, Germany

www.draeger.com

SUBSIDIARIES

CANADA
Draeger Safety Canada Ltd.
7555 Danbro Crescent
Mississauga,
Ontario L5N 6P9
Tel +1 905 821 8988
Fax +1 905 821 2565

Customer Service
Tel 877 372 4371
Fax 800 329 8823

MEXICO
Draeger Safety S.A. de C.V.
Carretera San Luis Potosí Km 21
Bodegas No. 1 y 2
Condominio Industrial
"Polígono Empresarial
Santa Rosa Bloque SMED"
Querétaro, Qro
México, C.P. 72220
Tel +52 442 246-1113
Fax +52 442 246-1114

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Customer Service
Tel 800 858 1737
Fax 800 922 5519

Technical Service
Tel 888 794 3806
Fax 888 794 3807

Work Smarter, Work Safer with the Dräger X-dock® 5300/6300/6600

Automatic bump tests, calibration, reduced test gas consumption, short testing times and comprehensive documentation come standard in this new device from Dräger, the experts in gas detection.

The X-dock's engineered advantage all starts with intuitive touchscreen operation at the master controller station where up to three test routines can be configured.

Testing is as simple as inserting your Dräger gas detection instrument and closing the lid. The X-dock immediately detects all sensor combinations and automatically tests and adjusts when all of the required test gases are connected. All generated data is documented in the database.

COMPREHENSIVE DOCUMENTATION

All of the relevant data from the test is collected for detailed evaluations providing you with the tools for unparalleled analytics. The report wizard can be used to create customized reports and calibration certificates can be printed right at the stations via PostScript-compatible USB printers. Also documented are items such as instrument operational status and name of tester.

CONVENIENCE AND CONTROL

The X-dock Manager software produces a detailed evaluation of the data in the calibration system and gas detection instruments, and presents the information in various graphics and statistical models – providing you with a comprehensive overview of all results. Multiple X-dock systems can be connected in a network giving all users access to data in a central database.

CONFIGURATIONS FOR EVERY NEED

The Dräger X-dock comes in multiple configurations to allow for flexibility depending on the type of detection instrumentation being used.

The X-dock 5300 includes a master controller with a module for a single gas detection instrument in the X-am 1/2/5000 or Pac[1)] family of products. The X-dock 6300 and 6600 versions can be configured freely. They consist of a master controller and can be expanded with up to 10 modules for X-am 1/2/5000 and/or Pac single gas detection instruments.

Dräger X-dock 5300 with X-am 125 module and mounted test gas cylinder

Integrated touchscreen for signaling and operation

Dräger X-dock 6300 with Pac and X-am module

REDUCED TEST GAS USE MEANS REDUCED COSTS

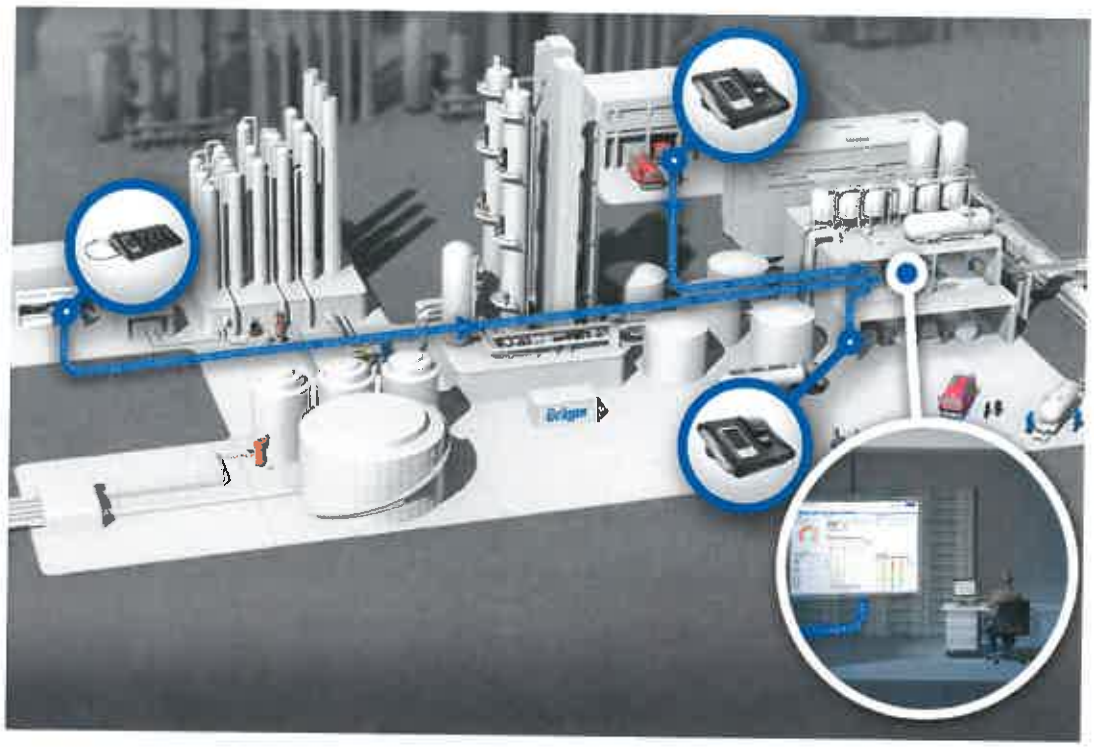
With a reduced gas flow (300 mL/min instead of 500 mL/min = 40 % decrease) per module, you save money on test gases. Short testing times also reduce the overall maintenance requirements. Dräger's patent pending innovative valve concept only needs one pump, which means less wear on parts for you. The valves automatically switch the test gases and the fresh air source as well.

TIME IS MONEY. YOU SAVE BOTH WITH THE X-DOCK

Up to 10 modules can be connected to the X-dock, allowing you to test gas detection instruments simultaneously or independently of each other. The automatic bump test also saves time, because the test only takes 8 to 15 seconds. All Dräger test gas cylinders are already stored in the database – just enter the part number to automatically fill the fields required for the gas configuration, eliminating the need for manual data entry

FURTHER BENEFITS

- Touchscreen operation at the master controller station
- Up to three configurable test routines
- Automatic permeability tests
- Automatic tests of all alarm elements (acoustic, visual and vibration alarms)
- Optional charging function for X-am 1/2/5x00
- Easy to replace seal cartridge
- 12V operation (e.g., in vehicles) vailable
- Can be subsequently expanded with up to max. 10 modules (X-dock 6300/6600)
- Sensor performance testing



THE X-DOCK MANAGER OFFERS

- An overview page
- Gas exposure in specific areas,
  - Number of executed tests
  - Device availability
  - Overview of created/sent reports
- Templates for regular reports
- An issue and return function
- Monitoring of stations in the network
- Overview of devices

TECHNICAL DATA

Dräger X-dock 5300/6300/6600

	X-dock Master Controller	X-dock Module Pac	X-dock Module X-am 125	X-dock Module X-am 125+
Weight	Approx. 1500 g	Approx. 900 g	Approx. 920 g	Approx. 960 g
X-dock Master Controller dimensions	Approx. 120 x 130 x 250 mm			
X-dock Module dimensions	Approx. 90 x 145 x 250 mm			
Protection class IP20	Yes			
Power pack/power supply	ViVia 24 V (8321849 & 8321850) power pack or car adapter			
Approvals	CE marking			
Ambient conditions	0 °C to 40 °C			
Gas connections				
Dräger X-dock 5300 / 6300	3 test gas inlets for connecting 3 different test gases + one fresh air inlet + one exhaust gas outlet			
Dräger X-dock 6600	6 test gas inlets for connecting 6 different test gases + one fresh air inlet + one exhaust gas outlet			
Connections				
USB 2.0	3 USB 2.0 devices/1 USB host			
Network connection	Yes: Ethernet			
Internal Memory Size	2GB			

CORPORATE HEADQUARTERS
Dragerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany

www.draeger.com

CANADA
Draeger Safety Canada Ltd.
7555 Danbro Crescent
Mississauga,
Ontario L5N 6P9
Tel +1 905 821 8988
Fax +1 905 821 2565

Customer Service
Tel 877 372 4371
Fax 800 329 8823

MEXICO
Draeger Safety S.A. de C.V.
German Centre
Av. Santa Fe, 170 5-4-14
Col. Lomas de Santa Fe
01210 México D.F.
Tel +52 442 246-1113
Fax +52 442 246-1114

Customer Service
Tel 800 723 3891

REGION CENTRAL AND SOUTH AMERICA
Drager Panama S. de R.L.
Complejo Business Park,
V tower, 10th floor
Panama City
Tel +507 377-9100
Fax +507 377-9130
contactcsa@draeger.com

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 8383
Fax +1 412 787 2207

Customer Service
Tel 800 858 1737
Fax 800 922 5519

Technical Service
Tel 888 794 3806
Fax 888 794 3807

Manufacturer:
Drager Safety AG & Co. KGaA
Revalstraße 1
23560 Lübeck, Germany

HazMat Simultest Kit

The Dräger HazMat Simultest Kit is based on the Simultaneous Test Sets I, II & III. These specially designed 5-tube sets are used to detect gases and vapors generated as the result of a structural fire or emitted from a chemical leak or spill.

The HazMat Simultest DOES NOT require a complex, confusing matrix card to determine what gases and vapors are present in the ambient air. Each semi-quantitative test takes one minute or less to conclude, therefore the complete testing time to identify ten gases and five organic chemical families is less than 5 minutes. An Air Current Kit is included to help determine relative wind direction and intensity.

Because no power source is required and the tubes are pre-calibrated, the HazMat Simultest Kit is always ready for use in emergency response situations. Training requirements are minimized as all 3 Test Sets have identical instructions for use. Laminated full color instruction cards are supplied to provide a quick reference on the simple sampling procedures and accurate interpretation of results. The kit requires minimal maintenance.

Drägersafety

TECHNICAL DATA

HazMat Simultest Kit

The complete HazMat Simultest Kit includes: The accuro® bellows pump with spare parts, simultaneous test sets, 1-meter extension hose with adapter, simultaneous test set opener, individual tube opener, air current kit and laminated instruction cards that have full color graphics making interpretation of tubes quick and easy. A rugged Pelican carrying case protects the kits contents.

Test Set Information

Simultaneous Test Set I	8101735
(3 included) detects acid gases (e.g. hydrochloric acid, nitric acid), hydrocyanic acid, carbon monoxide, basic type gases (e.g. ammonia, butylamine) and nitrous gases (NO & NO_2)	
Simultaneous Test Set II	8101736
(3 included) detects sulfur dioxide, chlorine, hydrogen sulfide, carbon dioxide and phosgene.	
Simultaneous Test Set III	8101770
(4 included) detects organics: ketones (e.g. acetone, MEK), aromatics (e.g. benzene,toluene), alcohols (e.g. methanol, ethanol), aliphatic hydrocarbons (e.g. n-hexane, n-octane) and chlorinated hydrocarbons (e.g. perchloroethylene, trichloroethylene).	

Space is provided in the kit for 6 additional boxes of standard Draeger-Tubes®. Draeger provides over 200 different chemical specific short term tubes for detection of over 1000 chemicals.

ORDERING INFORMATION

HazMat Simultest Kit	4056098
HazMat Simultest Kit without accuro® pump	4056447
HazMat Simultest Carrying Case with foam inserts only	4056458

SUBSIDIARIES

DRAEGER SAFETY, INC.
101 Technology Drive
Pittsburgh, PA 15275-1057
USA
Tel 1-412-787-8383
Fax 1-412-787-2207
www.draeger.com

CUSTOMER SERVICE
Tel 1-800-858-1737
Fax 1-800-922-5519

TECHNICAL SERVICES
Tel 1-888-794-3806
Fax 1-888-794-3807

DRAEGER SAFETY CANADA LTD.
7555 Danbro Crescent
Mississauga, ON L5N 6P9
Canada
Tel 1-905-821-8988
Fax 1-905-821-2565

CUSTOMER SERVICE
Tel 1-877-372-4371
Fax 1-800-Fax-Tube

DRAEGER SAFETY S.A. DE C.V.
Av. Peñuelas No. 5
Bodega No. 37
Fraccionamiento Industrial San Pedrito
Querétaro, Qro. C.P. 76148
Mexico
Tel 52-442-246-1113
Fax 52-442-246-1114

Dräger

Dräger
Civil Defense Set Simultaneous-Testset

Are you prepared to response to a terrorist attack involving chemical weapons? In today's world immediate and accurate detection of toxic chemical agents is crucial. Dräger has developed an important new detection system not available from any other manufacturer – specialized sets that detect up to five different chemical agents simultaneously – in just five minutes.

The Dräger CDS civil defense set utilizes colorimetric Dräger detector tubes, the same tube chemistry used by NATO for many years in single tube detectors.
The Dräger CDS Kit provides two CDS sets for detection of eight chemical substances, including nerve, blood, lung, nose and throat irritating agents.
The Aberdeen Proving Ground group[1] tested tubes for nerve irritating agents as an example for Dräger CDS-tubes: The Dräger-tubes® performed well in all tests and the results were consistent. The interferences did not affect their performance.
To make training for the CDS sets as easy and cost-saving as possible, Dräger offers training sets for CDS I and CDS V.

[1] DEL: Design Evaluation Laboratory at Aberdeen Proving Ground, Edgewood, Maryland, Februar 1999

Features/Benefits

- Low cost compared to spectroscopic devices
- No power supply required for manual pump
- On-the-spot results in five minutes
- No warm-up time
- No calibration
- Minimal training, training sets available
- Simple operation
- No filters to replace

Dräger Civil Defense Set – another quality product from Dräger.

ST-8723-2006

Dräger Civil Defense Set

ST-8727-2006

Dräger Simultaneous-Test
with Gas Detector Pump accuro

ORDER INFORMATION

CDS I			
Agent	Dräger-Tube	Sensivity	81 03 140
Hydrocyanic Acid	Hydrocyanic Acid	1 ppm	
Phosgene	Phosgene	0,2 ppm	
Lewesite	Org. Arsenic Compounds and Arsine	3 mg/m³(arsenic.)	
		0,1 ppm (Arsine)	
N-Mustard	Org. Basic Nitrogen Compounds	1mg/m³	
S-Mustard	Thioether	1mg/m³	

CDS V			
Nerve Agents	Phosphoric Acid Esters	0,025 ppm	81 03 200
Phosgene	Phosgene	0,2 ppm	
Cyanogen Chloride	Cyanogen Chloride	0,25 ppm	
Chlorine	Chlorine	0,2 ppm	
S-Mustard	Thioether	1mg/m³	
Training set for CDS I			81 03 230
Training set for CDS V			81 03 240
CDS opener			64 00 090
accuro pump			64 00 000

90 46 173 | 08.09-2 | Marketing Communications | PR | ED | Printed in Germany | Chlorine-free – environmentally compatible | Subject to modifications | © 2009 Dräger Safety AG & Co. KGaA

HEADQUARTERS:
Dräger Safety AG & Co. KGaA
Revalstrasse 1
23560 Lübeck, Germany

www.draeger.com

SUBSIDIARIES:

AUSTRALIA
Draeger Safety Pacific Pty. Ltd.
Axxess Corporate Park
Unit 99, 45 Gilby Road
Mt. Waverley, Vic 3149
Tel +61 3 92 65 50 00
Fax +61 3 92 65 50 95

CANADA
Draeger Canada Ltd.
7555 Danbro Crescent
Mississauga,
Ontario L5N 6P9
Tel +1 905 821 89 88
Fax +1 905 821 25 65

P. R. CHINA
Beijing Fortune Draeger
Safety Equipment Co., Ltd.
A22 Yu An Rd. B Area,
Tianzhu Airport Industrial
Zone, Shunyi District,
Beijing 101300
Tel +86 10 80 49 80 00
Fax +86 10 80 49 80 05

FRANCE
Dräger Safety France SAS
3c route de la Fédération,
BP 80141
67025 Strasbourg Cedex 1
Tel +33 3 88 40 59 29
Fax +33 3 88 40 76 67

USA
Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275
Tel +1 412 787 83 83
Fax +1 412 787 22 07

MEXICO
Draeger Safety S.A. de C.V.
Av. Peñuelas No. 5
Bodega No. 37
Fraccionamiento Industrial
San Pedrito
Querétaro, Qro México
Tel +52 442 246-1113
Fax +52 442 246-1114

NETHERLANDS
Dräger Safety Nederland B.V.
Edisonstraat 53
2700 AH Zoetermeer
Tel +31 79 344 46 66
Fax +31 79 344 47 90

REP. OF SOUTH AFRICA
Dräger South Africa (Pty) Ltd.
P.O. Box 68601
Bryanston 2021
Tel +27 11 465 99 59
Fax +27 11 465 69 53

SINGAPORE
Draeger Safety Asia Pte Ltd
67 Ayer Rajah Crescent #06-03
Singapore 139950
Tel +65 68 72 92 88
Fax +65 65 12 19 08

SPAIN
Draeger Safety Hispania S.A.
Calle Xaudaró 5
28034 Madrid
Tel +34 91 728 34 00
Fax +34 91 729 48 99

UNITED KINGDOM
Draeger Safety UK Ltd.
Blyth Riverside Business Park
Blyth, Northumberland
NE24 4RG
Tel +44 1670 352 891
Fax +44 1670 356 266