



D-395034-2021



D-163357-2016

## Product Catalog 2023 for Industrial Applications



Dräger

Gas	Value	Unit
CH <sub>4</sub>	0	Vol%
O <sub>2</sub>	20.9	ppm
CO	0	ppm
H <sub>2</sub> S	0.0	ppm

OK

Dräger

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### WELCOME

Dräger is a leading international company in the fields of medical and safety technology. Founded in Lübeck in 1889, Dräger has grown into a worldwide enterprise in its fifth generation as a family-run business. Our long-term success is predicated on a value-oriented corporate culture with four central strengths: close collaboration with our customers, the expertise of our employees, continuous innovation and outstanding quality.

“Technology for Life” is our guiding principle. Wherever they are deployed – in clinical settings, industry, mining or emergency services – Dräger products protect, support and save lives.

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Whilst every care has been taken in the compilation of this price list, and every attempt made to present up-to-date and accurate information, we cannot guarantee that inaccuracies will not occur. Dräger reserves the right to make any changes without providing prior notification.

## RESPIRATORY PRODUCTS FROM DRÄGER

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### PROFESSIONAL RESPIRATORY PROTECTION SINCE 1889



Regardless of your industrial application, whether it be painting, welding, carpentry, metal processing or chemical handling, your safety is Dräger's prime objective. Even under the harshest conditions, with Dräger you will find a system solution that meets your needs.

For more than 100 years Dräger products have helped keep people breathing safely. The Dräger X-plore® range of respiratory protection products offers a complete selection of products and system solutions—tailored to meet your needs.

The ideal combination of comfort, easy handling and user safety is ensured by new materials, a modern and practical design, together with the experience of numerous engineers' world-wide and intensive dialogue with our customers.

This all adds up to offering solutions which meet your expectations.

## DRÄGER VOICE

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### WE HAVE SOMETHING AGAINST DANGER AT THE WORKING PLACE



When something is in the air – regardless of dusts, gases or vapors – the use of high-quality respiratory protection is essential.

When it comes to selecting the right respiratory protection there are some important factors to consider: knowledge of the existing contaminants and the application requirements along with the limitations of use and the protection levels each respirator offers. Sound complicated? You are not alone, but Dräger has the right tools to support you and will help you every step of the way.

Our Dräger VOICE database of hazardous substances supports you in selecting the optimal mask-filter combination for your application. You can find it in the internet under [www.draeger.com/voice](http://www.draeger.com/voice).

For a quick and easy orientation the following pages give you a short overview on the Dräger X-plore® product family, selected industrial applications, and the appropriate respiratory protection for your job.

## AIR PURIFYING RESPIRATORS

### INTRODUCTION

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## AIR PURIFYING RESPIRATORS

### SELECTING THE APPROPRIATE RESPIRATORY PROTECTION



Selecting the appropriate mask/cartridge/filter combination is extremely important to ensure that you are properly protected throughout the work day. The information contained in this brochure should only be used as guidelines and should not be used as a substitute for local/federal regulations or worksite specific conditions.

Additional information can be found in the product instruction manual or on your regulating agency's (e.g. OSHA, NIOSH) website.

Do not use an Air Purifying Respirator under the following conditions:

- In atmospheres containing less than 19.5% oxygen
- If type of contaminant or concentration is unknown
- In an IDLH (Immediately Dangerous to Life or Health) atmosphere
- If concentration is unknown, assume IDLH

If any of these conditions exist, you must use an appropriate supplied air respirator.

Basic information needed for selection:

- Know what type of hazards are present
- Concentration levels
- Assigned Protection Factor (APF): expected level of protection from a particular class of respirators – OSHA 1910.134

These items can be determined using one of Dräger's gas detection instruments from our comprehensive line, MSDS, product label, etc.

Once this information is known, an excellent resource to determine respirator type is to refer to the NIOSH Pocket Guide to Chemical Hazards ([www.cdc.gov/niosh/npg](http://www.cdc.gov/niosh/npg)). This guide lists the Permissible Exposure Limits (above this level respiratory protection is required), type of respiratory protection required, IDLH level, if eye irritant, if carcinogen, special instructions, etc.

## AIR PURIFYING RESPIRATORS

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### Mask Selection

Select mask type based on its Maximum Use Concentration ( $MUC = APF \times PEL$ ), of course not exceeding the IDLH level, and determine if eye protection is necessary. In addition, check NIOSH Pocket Guide for substance specific guidelines.

### Filter/Cartridge Selection

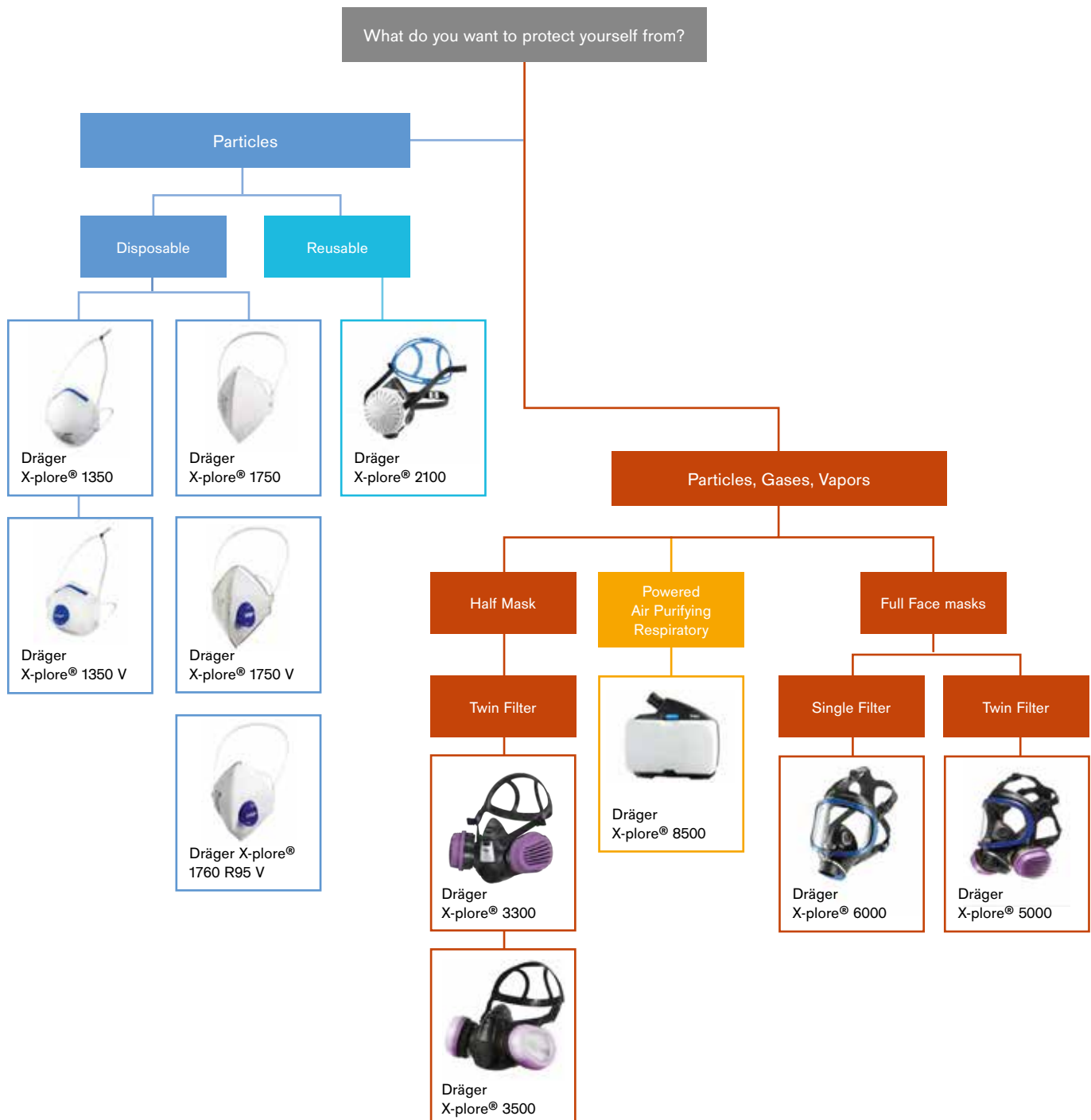
First check the NIOSH Pocket Guide and follow any special instructions for the substance of concern.

- Filters – should be selected only when particles (solid or liquid) are present. If oil is present, then use an “R” or “P” version. N95 offers the minimum approved protection; P100 provides the maximum approved protection.
- Single Gas Cartridges – should be selected only when gases or vapors from one particular family are present.
- Multi-Gas Cartridges – should be selected when gases or vapors from more than one family are present, or to reduce logistics when one cartridge is preferred in different areas containing different substances. Typically, multi-gas cartridges will last half as long as single gas cartridges.
- Combination Cartridges – should be selected when gases/vapors and particulates are present.



## AIR PURIFYING RESPIRATORS

## THE DRÄGER X-PLORE® PRODUCT FAMILY



## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 1300 NIOSH Particle Respirator

The improved X-plore® 1300 particulate respirators offer users the ideal combination of safety and comfort. Improvements were made on the basis of several years of intensive market experience, by analyzing customer requirements and market demands.



## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER X-PLORE® 1300 NIOSH PARTICLE RESPIRATOR



Dräger X-plore® 1300			
1. Dräger X-plore® 1350 XS	N95 rating	20 / box	3951351
1. Dräger X-plore® 1350 S/M	N95 rating	20 / box	3951352
1. Dräger X-plore® 1350 M/L	N95 rating	20 / box	3951353
2. Dräger X-plore® 1350 V S/M	N95 rating	10 / box	3951355
2. Dräger X-plore® 1350 V M/L	N95 rating	10 / box	3951356
3. Dräger X-plore® 1350 V Odor S/M	N95 rating	10 / box	3951358
3. Dräger X-plore® 1350 V Odor M/L	N95 rating	10 / box	3951359

## DATA

Filter material	CoolSAFE™ for protection against particles; N-rated for particulate aerosols free of oil, maximum use of one work-shift
Odor versions	Odor versions With additional activated carbon layer against nuisance organic odors below the limit value
Approvals	All versions are approved according to NIOSH 42 CFR Part 84.

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 1700

### Particle Filtering Face Piece

Breathe cool, stay safe: Dräger X-plore® 1750 and 1760 is Dräger's new generation particle filtering face piece respirators, coming with distinct improvements in comfort and protection.

#### CoolSAFE™ filter material

Performance that makes a difference: CoolSAFE™ filter material produced from high-performance filter media ideally combines low breathing resistance and high filter performance in one mask.

#### Flexible nose clip

Ensures a great fit, in the most critical area.

#### Soft inner layer

Comfortable to wear: the inner material layer is not only soft and hypo-allergenic, but also repels moisture thanks to its hydrophobic properties, keeping breathing resistance constantly low, when used for longer periods of time.

#### Folded form

All Dräger X-plore® 1700s are flat-folded, saving space and making them easier to transport.

#### Hygienic individual packaging

Each facepiece is individually packed in a plastic bag, ensuring it stays clean and hygienic.

#### VarioFLEX™ head harness

This continuous loop head harness is constructed from a stable, elastic, textile strap which is easy to don and doff while sitting comfortably with minimal pressure. The soft, tear-proof elastic easily stretched to fit various sizes of head and prevents hair entanglement.

#### CoolMAX™ exhalation valve (optional)

Breathe easy and comfortably: thanks to an extremely low breathing resistance. Additionally, the specially engineered CoolMAX™ exhalation valve releases humid and warm exhaled air, preventing heat build-up underneath the mask, allowing you to stay cool.



ST-8662-2007

## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER X-PLORE® 1700 PARTICLE FILTERING FACE PIECE



Dräger X-plore® 1700			
1. Dräger X-plore® 1750	N95 rating	20 / box	3951331
2. Dräger X-plore® 1760 V	R95 rating	15 / box	3951335
3. Dräger X-plore® 1760 V	R95 rating	15 / box	3951326

## TECHNICAL DATA

Filter material	CoolSAFE™ for protection against solid and liquid non-volatile particles	
Approvals	NIOSH	
	N95	TC-84A-4396
	N95 with valve	TC-84A-9370
	R95	TC-84A-4556

N95 Made in USA TC-84A-9053

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 2100

### Half Mask

The Dräger X-plore® 2100 is the reusable alternative to disposable dust masks. The Dräger X-plore® 2100 is the ideal solution for people working frequently in dusty environments. Its replaceable filters provide protection against solid and liquid particles. This half mask offers the perfect combination of comfort, safety, and cost-effectiveness.

#### Head harness with anti-slip head strap

- One-piece with two adjustment points
- Quick and easy donning and doffing
- Excellent pressure distribution

#### Comfortable mask body

- High quality tight fit
- Choose between two high quality materials: EPDM and silicone
- Two sizes for silicone masks: for the best wearer comfort and tight fit

#### Dräger replacement filter

- Protection levels FMP2 and FMP3
- High filter efficiency and low breathing resistance
- Quick and easy replacement of the replaceable filter
- Very efficient in use

#### Flexible textile strap

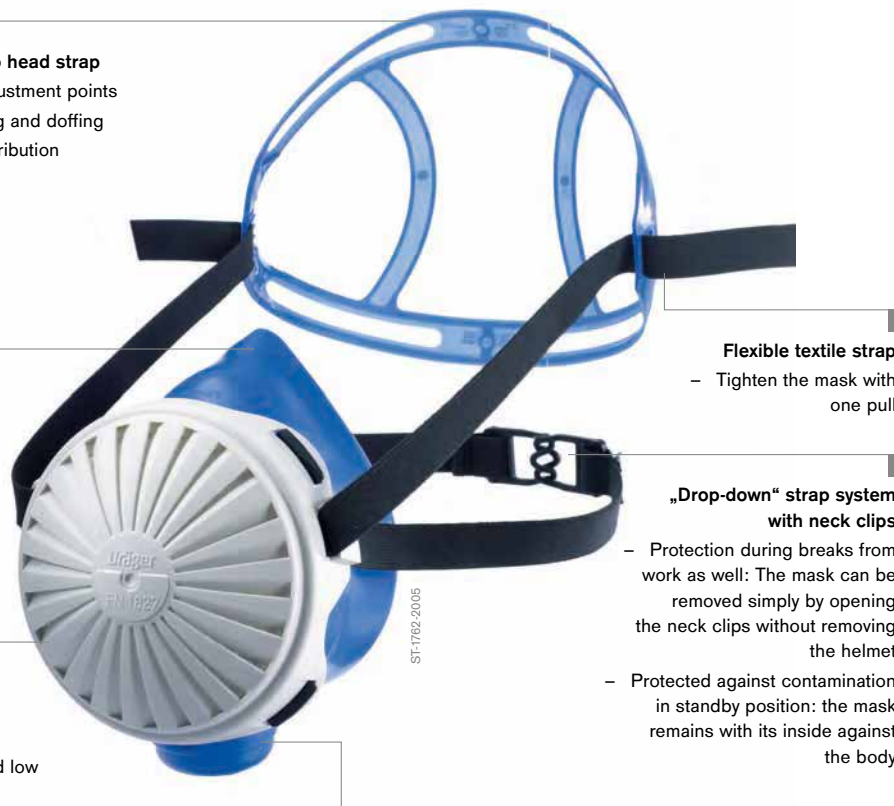
- Tighten the mask with one pull

#### „Drop-down“ strap system with neck clips

- Protection during breaks from work as well: The mask can be removed simply by opening the neck clips without removing the helmet
- Protected against contamination in standby position: the mask remains with its inside against the body

#### Smooth-running exhalation valve

- Comfortable microclimate in the mask: exhalation valve removes exhaled air to the outside from below



## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER X-PLORE® 2100 HALF MASK



Dräger X-plore® 2100			
1. Dräger X-plore® 2100, EPDM, universal size		1 / box	R55881
1. Dräger X-plore® 2100, Silicone S/M		1 / box	R55883
1. Dräger X-plore® 2100, Silicone M/L		1 / box	R55882
Dräger X-plore® 2100 Filter			
2. Particle filter R95 (NIOSH approved)		20 / box	6737352
2. Particle filter P100 (NIOSH approved)		20 / box	6736777
Application sets for dusty workplaces			
Dräger X-plore® 2100, EPDM, Universal size	With 5 filters P100		R55910
Dräger X-plore® 2100, silicone, M/L	With 5 filters P100		R55915

## TECHNICAL DATA

Mask body	Silicone (blue) or EPDM (black)
Sizes	Dräger X-plore® 2100 Silicone: small/medium (s/m) and medium/large (m/l) Dräger X-plore® 2100 EPDM: universal size
Filter connector	Plug-in connector for Dräger particle filters of type R95 / P100
Weight	Approx. 0.2 lb.
Head harness	Flexible textile strap with polypropylene harness, drop-down option
Approvals	NIOSH, CE certified (EN 1827)
Spare parts	Available

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 3300

### Half Mask

The Dräger X-plore® 3300 offers both practical use and comfort, by its economical and low-maintenance use.

#### Dräger "FlexiFit" head harness

- Innovative, pliable material
- Ergonomic design
- Easy donning and doffing
- Excellent fit, remains in position on every head without trapping any hair
- Good pressure distribution: the head harness does not exert pressure, even under the helmet

#### Compact "low profile" design

- Side positioning of the filters and flat construction
- Excellent field of vision
- Good fit for use under protective
- Three sizes (S, M, L) are available to fit every face

#### Innovative X guide of the harness

- Very easy to adjust
- Optimal weight and stress distribution
- Excellent wearer comfort



#### Flexible nasal area

- Special design for extra tight fit and good shape – even with safety glasses

#### Safer bayonet-type connectors

- Inserting the filters is easy: both filters are inserted from above and guided down to the connection point



## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**DRÄGER X-PLORE® 3300 HALF MASK**

Dräger X-plore® 3300			
Dräger X-plore® 3300 half mask, small		1 / box	R55331
Dräger X-plore® 3300 half mask, medium		1 / box	R55330
Dräger X-plore® 3300 half mask, large		1 / box	R55332
Accessories			
Half mask Carrying bag		1 / box	4055649
Exhalation Valve Cover		1 / box	R56963

The Dräger X-plore® filter series offers an extensive range of particle, gas & vapor, and combination filters and cartridges.

**TECHNICAL DATA**

Material of mask body	Dräger X-plore® 3300: Soft-TPE
Sizes	small (S), medium (M), large (L)
Filter connector	Two side-positioned bayonet connectors for use with the Dräger X-plore® filter range
Weight	Approx. 0.2 lb.
Approvals	NIOSH 42 CFR 84, CE-certified (EN 140), Australian Standard AS/NZS 1716
Maintenance	Spare parts available for Dräger X-plore® 3500
Extras	Drop-down harness system and resealable storage bag (with Dräger X-plore® 3500)

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 3500 Half Mask

A perfect combination of durability, protection, and comfort. For harsh conditions and long duration use, the Dräger X-plore® 3500 half mask is the first choice.

### Dräger "FlexiFit" head harness

- Innovative, pliable material
- Ergonomic design
- Easy donning and doffing
- Excellent fit, remains in position on every head without trapping any hair
- Good pressure distribution: the head harness does not exert pressure, even under the helmet

### Flexible nasal area

- Special design for extra tight fit and good shape – even with safety goggles

### Compact "low profile" design

- Side positioning of the filters and flat construction
- Excellent field of vision
- Good fit for use under protective
- Three sizes (S, M, L) are available to fit every face

### Innovative X guide of the harness

- Very easy to adjust
- Optimal weight and stress distribution
- Excellent wearer comfort



### "Drop-down" strap system with neck clips

- Protection during breaks from work as well: The mask can be removed simply by opening the neck clips without removing the helmet
- Protected against contamination in standby position: the mask remains with its inside against the body

### Safer bayonet-type connector

- Inserting the filters is easy: both filters are inserted from above and guided down to the connection point

## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**DRÄGER X-PLORE® 3500 HALF MASK**

Dräger X-plore® 3500			
Dräger X-plore® 3500 half mask, small		1 / box	R55351
Dräger X-plore® 3500 half mask, medium		1 / box	R55350
Dräger X-plore® 3500 half mask, large		1 / box	R55352
Accessories			
OHD Quantifit Fit Test Adapters		1 / box	4057023
Portacount Fit Test Adapter Set		1 / box	6738979
Half mask Carrying bag		1 / box	4055649
Exhalation Valve Cover		1 / box	R56963

The Dräger X-plore® filter series offers an extensive range of particle, gas & vapor, and combination filters and cartridges.

**TECHNICAL DATA**

Material of mask body	Dräger X-plore® 3500: "DrägerFlex"
Sizes	small (S), medium (M), large (L)
Filter connector	Two side-positioned bayonet connectors for use with the Dräger X-plore® filter range
Weight	Approx. 0.2 lb.
Approvals	NIOSH 42 CFR 84, CE-certified (EN 140), Australian Standard AS/NZS 1716
Maintenance	Spare parts available for Dräger X-plore® 3500
Extras	Drop-down harness system and resealable storage bag (with Dräger X-plore® 3500)

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 5500

### Full Face Mask

Whether in the chemical, metal, or automotive industries, ship building, maintenance, supplies, or disposal: The Dräger X-plore® 5500 full face mask is the right solution for environments where not only increased respiratory protection is required, but a clear vision is mandatory.

#### Comfortable and secure fit

- Double sealing frame with threefold sealing edges
- More secure protection and tight fit

#### Large visor (180° angle)

- Optimal view during work
- Made from Polycarbonate or Triplex

#### Safe bayonet-type connector

- Simple insertion of the filters: Both filters are inserted from above and guided down to the connection point
- Cannot be fitted incorrectly



#### 5-point harness

- Simple donning and doffing without trapping any hair

#### Compact "low profile" design

- Side positioning of the filters and flat construction
- Unrestricted field of vision

ST-948-2008

## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**DRÄGER X-PLORE® 5500 FULL FACE MASK**

Dräger X-plore® 5500			
Dräger X-plore® 5500 EPDM/PC	With PC lens and plastic frame	1 / box	R55270
Dräger X-plore® 5500 EPDM/Triplex	With Triplex lens and stainless steel frame	1 / box	R56655
Accessories			
Spectacle Kit (frame and holder)		1 / box	R51548
Full face case, hard plastic		1 / box	R51019
Lens cover (set of 25), self-adhesive		25 / box	4455092
Anti-fog, Alcohol Free Liquid Gel, 50ml		1 / box	R52560
Alcohol Free Wipes		100 / box	4053845
Welding shield for use with stainless steel	Accepts standard 4.5" x 5.25" glass	1 / box	4053437

The Dräger X-plore® Bayonet filter range offers an extensive range of particulate, gas and vapor, and combination filters and cartridges.

**TECHNICAL DATA**

Material of mask body	EPDM with high ageing resistance, extremely hypoallergenic
Visor	Polycarbonate (with wide field of vision) or Triplex (extremely scratch-resistant with high chemical resistance)
Filter connector	Two side-positioned bayonet connections for use of the Dräger X-plore® Bayonet Filter range
Weight	Approx. 1.1 lb.
Approvals	NIOSH approved, EN 136 Cl.2 with CE mark
Maintenance	Spare parts available

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® Bayonet Filters

### Filter

Experience a new dimension of comfort and safety in respiratory protection: the Dräger X-plore® Twinfilter series. It sets the benchmark in comfort and use. The utilization of modern materials, coupled with an attractive design, guarantees maximum comfort and user acceptance.



D-7486-2019

## AIR PURIFYING RESPIRATORS








PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER X-PLORE® BAYONET FILTERS

Particle Filters			
Pad N95	6 g/pc	20 pcs = 10 pairs	6738020
Pad R95	6 g/pc	20 pcs = 10 pairs	6738021
P100	35 g/pc	22 pcs = 11 pairs	6740830
Pure P100	20 g/p	20 pcs = 10 pairs	6738350
Pure P100 Odor	30 g/pc	20 pcs = 10 pairs	6738392
Gas Filters			
OV	90 g/pc	20 pcs = 10 pairs	6738024
AM/MA	120 g/pc	20 pcs = 10 pairs	6738027
027OV/AG/HF/FM/CD	90 g/pc	20 pcs = 10 pairs	6738025
OV/AG/HF/FM/CD/AM/MA/HS	110 g/pc	20 pcs = 10 pairs	6738351
Combination Cartridges			
OV/P100	120 g/pc	14 pcs = 7 pairs	6738034
AM/MA/P100	150 g/pc	14 pcs = 7 pairs	6738037
OV/AG/HF/FM/CD/P100	120 g/pc	14 pcs = 7 pairs	6738035
OV/AG/HF/FM/CD/AM/MA/HS/P100	145 g/pc	14 pcs = 7 pairs	6738361
Accessories			
Pad Retainer (for use with pads)	20 g/pc	12 pcs	6738038
Pad Base (for use with pads)	20 g/pc	12 pcs	6738039
Course particulate pre-filters (for combination cartridges)	0.2 g/pc	40 pcs = 20 pairs	6738159
Retainer course particulate pre-filters	12 g/pc	14 pcs = 7 pairs	6737576
Pure Adapter (for use with gas cartridges to combine with Pure filters)	18 g/pc	10 pcs	6738356

## AIR PURIFYING RESPIRATORS

### TECHNICAL DATA

Color Code	Filter type	Contaminants present
	OV	Organic Vapors
	AG	Acid Gases: e.g. chlorine, hydrogen chloride, sulfur dioxide
	OV/AG	Organic Vapors/Acid Gases
	AM/MA	Ammonia/Methylamine
	MV	Mercury Vapor
		Multi-Gas and Vapor, Special Use
	P100	Particles

### Chemical Abbreviation

OV = Organic Vapors	FM = Formaldehyde
AG = Acid Gases	CD = Chlorine Dioxide
CL = Chlorine	AM = Ammonia
HC = Hydrogen Chloride	MA = Methylamine
SD = Sulfur Dioxide	HS = Hydrogen Sulfide
HF = Hydrogen Fluoride	PH = Phosphine



## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 6300

### Full Face Mask

The Dräger X-plore® 6300 is an efficient, low-cost full face breathing mask intended for price-conscious users not wishing to compromise comfort or quality. This full face mask is the successor to the Panorama Nova Standard, a mask which has proven itself over decades of use worldwide—redesigned and improved with fresh colors and an integrated bar code.



ST:7497-2005

## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**DRÄGER X-PLORE® 6300 FULL FACE MASK**

Dräger X-plore® 6300			
Dräger X-plore® 6300 EPDM/PMMA	with PMMA lens and plastic frame	1 / box	R55800
Accessories			
Wikov V carrying box		1 / box	R51019
Mask spectacles frame		1 / box	R51548
Anti-fogging gel "klar-pilot"		1 / box	R52560
DAISYquick cleaning cloths (pack of 10)		1 / box	R54134
Welding shield		1 / box	4053437
Adapter for welding shield	for supplementary panels and welding protective filters with a 4.3 x 3.5 in. format	1 / box	R57308

The compatible Dräger X-plore® Rd40 (RA) filter series with standard thread connection as per EN 148-1 includes an extensive range of different particle, gas and combination filters.

**TECHNICAL DATA**

Mask body	Highly resistant and hypoallergenic EPDM
Visor	Choice of impact-resistant polycarbonate or extremely temperature- and chemical-resistant triplex
Connector	Sturdy plastic with inhalation and exhalation valve, standard thread connection Rd 40x1/7" as per EN 148-1
Weight	Approx. 550 – 650 g (depending on visor/frame)
Tested and approved	EN 136 Class 3 (CE mark), NIOSH (PC), AS/NZS

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 6530

### Full Face Mask

Especially durable with wide panoramic view: Dräger X-plore® 6530 is an exceptional full face mask for professional use in the most versatile applications.



## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## X-PLORE® 6530 FULL FACE MASK

Dräger X-plore® 6530			
Dräger X-plore® 6530 EPDM/PC	With PC visor and plastic frame	1 / box	R55795
Dräger X-plore® 6530 EPDM/PC	With PC visor and stainless steel frame	1 / box	R51525
Accessories			
Wikov V carrying case		1 / box	R51019
Mask spectacles kit		1 / box	R51548
Lens covers (set of 25), self-adhesive		25 / box	4055092
Welding protection visor (only for stainless steel frame)		1 / box	R50270
Anti-fogging gel "klar-pilot" (50 ml)		1 / box	R52560
DAISYquick cleaning cloths		10 / box	R54134
Welding shield		1 / box	4053437
Adapter for welding shield	for supplementary panels and welding protective filters with a 110 mm x 90 mm format	1 / box	R57308

The compatible Dräger X-plore® Rd40 filter series with standard thread connection as per EN 148-1 includes an extensive range of different particle, gas and combination filters.

## TECHNICAL DATA

Mask body	Highly resistant and hypoallergenic EPDM
Visor	Scratch-proof PMMA (Plexiglas) with 180° wide-angle
Connector	Sturdy plastic with inhalation and exhalation valve, standard thread connection Rd 40x1/7" as per EN 148-1
Weight	Approx. 1.1 lb.
Tested and approved	EN 136 Class 2 (CE mark), NIOSH, AS/NZS

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 6570

### Full Face Mask

The Dräger X-plore® 6570 is the high-comfort silicone full face mask used by professionals in a wide variety of applications. It meets the highest demands of quality, reliability, secure fit, and comfort. This full face mask is the successor to the Panorama Nova masks, a range which has proven itself over decades of use worldwide.



SF7501-2005

## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## X-PLORE® 6570 FULL FACE MASK

Dräger X-plore® 6570			
Dräger X-plore® 6570 SI/PC	With PC visor and plastic frame	1 / box	R55790
Dräger X-plore® 6570 SI/PC	With PC visor and stainless steel frame	1 / box	R51535
Accessories			
Wikov V carrying case		1 / box	R51019
Protex mask bag		1 / box	R54939
Mask spectacles kit		1 / box	R51548
Lens covers (set of 25), self-adhesive		1 / box	4055092
Welding protection visor (only for stainless steel frame)		1 / box	R50270
Anti-fogging gel "klar-pilot"		1 / box	R52560
DAISYquick cleaning cloths (pack of 10)		1 / box	R54134
Welding shield		1 / box	4053437
Adapter for welding shield	for supplementary panels and welding protective filters with a 4.3 x 3.5 in. format.	1 / box	R57308

The compatible Dräger X-plore® Rd40 filter series with standard thread connection as per EN 148-1 includes an extensive range of different particle, gas and combination filters.

## TECHNICAL DATA

Mask body	Particularly skin-friendly silicone, which is highly flexible at high/low temperatures
Visor	Choice of impact-resistant polycarbonate or extremely temperature- and chemical-resistant triplex
Connector	Sturdy plastic with inhalation and exhalation valve, standard thread connection Rd 40x1/7" as per EN 148-1
Weight	1.1–1.3 lb. (depending on visor/frame)
Tested and approved	EN 136 Class 3 (CE mark), NIOSH (PC), AS/NZS

## AIR PURIFYING RESPIRATORS

## Dräger CDR 4500

### Full Face Mask

The Dräger CDR 4500 full face mask, combined with our CBRN Cap 1 canister, provides a CBRN approved combination specially developed for use in civil defense and civil protection.



## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER CDR 4500 SERIES SINGLE FILTER MASK

Dräger CDR 4500			
Dräger CDR 4500 (black)		1 / box	R55440
Dräger CDR 4500 (black steel lens frame), small		1 / box	R55575
Dräger CDR 4500 (black steel lens frame), medium		1 / box	R55710
Dräger CDR 4500 (black steel lens frame), large		1 / box	R55580
CBRN Cap 1 canister		1 / box	3703226
Accessories			
Protex mask bag		1 / box	R54939
Wikov V mask box		1 / box	R51019
Spectacle kit		1 / box	R51548
"klar pilot" anti-fog comfort (spray)		1 / box	R56542

## TECHNICAL DATA

Mask as a whole	High chemical resistance according to EN 136, resistance even against warfare agents (to NIOSH CBRN standard). High ageing resistance
Mask body	Silicone-free elastomer
Sealing frame	Double seal with triple sealing line for comfortable, tight fit
Visor	Impact-proof polycarbonate (PC) with anti-scratch coating on both sides for high chemical resistance. Large field of vision and excellent quality of vision.
Canister connection	Standard thread NATO 40 mm
Weight	Approx. 500 g (without canister)
Harness	5-point (large adjusting points to prevent trapping of hair)
Neck strap	As standard
Speech diaphragm	Stainless steel, high speech quality
Resistance	To NIOSH CBRN APR standard against sarin and mustard gas for up to 8 hours.
Approvals	NIOSH CBRN standard (TC-14G-0286) also approved to EN 136 Cl. 3, CE mark

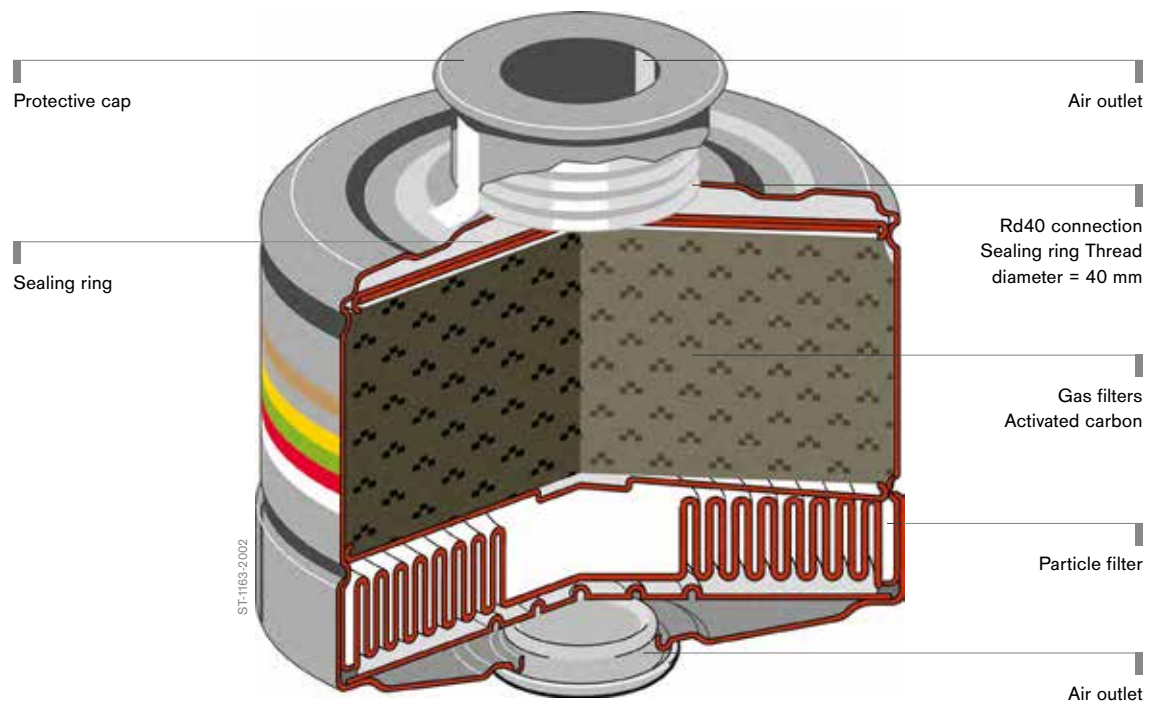


## AIR PURIFYING RESPIRATORS

## Dräger X-plore® Rd40 Filters

### Filter

Whether used in chemical industry or automobile industry, shipbuilding, metal processing industry, or by public utility services—for decades Dräger respiratory protection filters have been a synonym for experience and safety worldwide. They clean breathable air from contaminants in a low-cost and effective manner.



## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER X-PLORE® RD40 FILTERS</b>			
Particle Filters			
P100 Cartridge	Packaged Individually for Fit Testing	1 / box	4055497
P100 Box of 8		8 / box	6737013
Combination Filters			
Phosphine/Tear Gas/P100 Canister		1 / box	6737360

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 8000

### Powered Air-Purifying Respirator (PAPR)

The Dräger Workplace environments that compromise the quality of air you breathe demand reliable solutions. The Dräger X-plore® 8000 powered air-purifying respirator (PAPR) offers a new level of intuitive handling combined with intelligent electronics. The result? A high degree of safety that you and your people need to focus on the task at hand.



D-118978-2013

**Intelligent alarm system**

Two-step alarm concept with differentiation of risk level

**Lithium-ion technology**

Operating time between 4 and 20 hours depending on the working conditions and system set-up

**IP65 protection**

IP65 for optimal protection and easy decontamination

**Filter recognition**

Advanced sensor technology recognises the correct filter and displays particle filter saturation properly

**Hose identification**

Automatic adjustment of minimum flow rate for attached headpiece

## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER X-PLORE® 8000 PAPR</b>			
Blower unit	Dräger X-plore® 8500 (IP)	1 / box	R59500
Batteries	Dräger X-plore® 8000 High-capacity battery	1 / box	R59585
Charger	Dräger X-plore® 8000 Standard charger	1 / box	R59580
	Dräger X-plore® 8000 Multi-unit charger, 1 module w/o cable	1 / box	R59890
	Dräger X-plore® 8000 Multi-unit charger, 1 module w/ USA cable	1 / box	R59980
Carrying systems	Dräger X-plore® 8000 Standard belt	1 / box	R59700
	Belt extension for X-plore® 8000 Standard belt, 35 cm	1 / box	R59750
	Dräger X-plore® 8000 Comfort pad	1 / box	R59730
	Dräger X-plore® 8000 Decon belt	1 / box	R59710
	Belt extension for X-plore® 8000 Decon belt, 13.8 in. (35 cm)	1 / box	R59760
	Dräger X-plore® 8000 Welding belt	1 / box	R59720
	Dräger X-plore® 8000 Shoulder Harness	1 / box	R59740
<b>Preconfigured Sets</b>			
	Dräger X-plore® 8500 Hood set Includes blower unit, high capacity battery, standard charger, standard belt, comfort pad, Standard hood, short (L/XL), flexible hose. *Filter must be ordered separately.	1 / box	3703441
	Dräger X-plore® 8500 Welding set Includes blower unit, high capacity battery, standard charger, welding belt, Welding Visor, flexible hose, and spark proof hose cover. *Filter must be ordered separately.	1 / box	3703443
	Dräger X-plore® 8500 Protective visor set Includes blower unit, high capacity battery, standard charger, standard belt, comfort pad, Protective Visor, flexible hose. *Filter must be ordered separately.	1 / box	3703444
<b>Breathing hoses</b>			
Standard hoses	Dräger X-plore® 8000 Standard hose (for Tight-fitting headpieces)	1 / box	R59630
	Dräger X-plore® 8000 Standard hose (for Hoods)	1 / box	R59620
	Dräger X-plore® 8000 Standard hose (for Helmets and Visors)	1 / box	R59640
Flexible hoses	Dräger X-plore® 8000 Flexible hose (for Tight-fitting headpieces)	1 / box	R59610
	Dräger X-plore® 8000 Flexible hose (for Hoods)	1 / box	R59600
	Dräger X-plore® 8000 Flexible hose (for Helmets and Visors)	1 / box	R59650

## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>Filter</b>			
Prefilter	Dräger X-plore® 8000 Prefilter	1 / box	6739730
Odor-Filter	Dräger X-plore® 8000 Odor-Filter	1 / box	6739605
	Dräger X-plore® 8000 Odor-Filter, Set	1 / box	6739735
Particulate filter	Dräger X-plore® 8000 HE	1 / box	6739540
Gas filter	Dräger X-plore® 8000 OV	1 / box	6739575
Dräger X-plore® 8000 MultGas (CL/HF/AM/MA/FM/HS/SD/HC)		1 / box	6739590
Combination filter	Dräger X-plore® 8000 OV/HE	1 / box	6739560
	Dräger X-plore® 8000 OV/AG/HE	1 / box	6739565
Dräger X-plore® 8000 MultGas HEPA (CL/HF/AM/MA/FM/HS/SD/HC/HE)		1 / box	6739570
<b>Accessories</b>			
Dräger X-plore® 8000 Storage box		1 / box	R59690
Dräger X-plore® 8000 Hose cover, disposable		1 / box	R59670
Dräger X-plore® 8000 Hose cover, spark proof		1 / box	R59660

Select the appropriate Dräger X-plore® 8000 respirators for the Dräger X-plore® 8000 PAPR from the available product information:  
Dräger X-plore® 8000 hood, helmets, visors und masks.

## TECHNICAL DATA

Approvals	NIOSH (42 CFR, Part 84)
Ingress protection	IP65 (dust-tight and resistant to water jets from all sides)
Airflow	Automatic setting of operating type: loose- or tight-fitting headpiece; Adjustable in three levels: Half and full-face mask: 30, 34 or 83 gal./min (115, 130 or 145 l/min) Hoods, Helmets and Visors: 30, 34 or 83 gal./min (115, 130 or 145 l/min)
Battery technology	Lithium-ions: 12.6 V/3.4 Ah (standard battery), 12.6 V/6.8 Ah (high-capacity battery)
Operating time**	Standard battery life: 4 hours (at 210 l/min and P3 filter) High-capacity battery: 8 hours (at 210 l/min and P3 filter)
Charging time	Under 3 hours (in two hours 80 % can be reached)
Weight	Approx. 3 lb. (1,400 g) (Dräger X-plore® 8500 incl. standard battery and splash guard lid)
Alarm system	Optical alarm (operating display) Acoustical alarm (≥ 80 dB(A) at 3.3 ft. (1 m)) Vibration alarm
Belt length	Adjustable between 27.56 in. (700 mm) and 55.12 in. (1,400 mm) (standard and decontamination version)
Belt extension	13.8 in. (35 cm) (standard and decontamination version)

\*\* Depending on the adjusted flow and the concentration of contaminants

## AIR PURIFYING RESPIRATORS

## Dräger X-plore® 8000 headpieces

### Hoods, helmets, visors and masks

The more comfortable you are, the better you can do your job. The innovative Dräger X-plore® 8000 headpieces are an integral part of our new powered air-purifying respirator (PAPR). Both the loose and tight-fitting series offer robust, effective protection along with a high degree of comfort.

**Low-noise material**  
Standard and premium hoods are made of soft and comfortable low-noise material

**Low distortion**  
Spacer on top of the visor gives the visor a defined curvature to reduce distortion

**High protection level**  
All hoods approved as TH3

**Secure fit**  
Comfortable fit even when you are moving, due to ergonomic design

**Guided air inlet**  
Wind deflector inside the hose connector leads the air away from your head to eliminate feeling cold at a single spot

**Perfect fit**  
All hoods available in two different sizes



D-119009-2013

## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER X-PLORE® 8000 HEADPIECES

Hoods			
Standard hoods	Dräger X-plore® 8000 Standard hood, short (S/M)	1 / box	R59800
	Dräger X-plore® 8000 Standard hood, short (L/XL)	1 / box	R59810
	Dräger X-plore® 8000 Standard hood, long (S/M)	1 / box	R59820
	Dräger X-plore® 8000 Standard hood, long (L/XL)	1 / box	R59830
Premium hoods	Dräger X-plore® 8000 Premium hood, short (S/M)	1 / box	R59840
	Dräger X-plore® 8000 Premium hood, short (L/XL)	1 / box	R59850
	Dräger X-plore® 8000 Premium hood, long (S/M)	1 / box	R59860
	Dräger X-plore® 8000 Premium hood, long (L/XL)	1 / box	R59870
Accessories			
	Sweatband for Dräger X-plore® 8000 Standard hood	10 / box	R59826
	Sweatband for Dräger X-plore® 8000 Premium hood	10 / box	R59862
	Protective foils for Dräger X-plore® 8000 hood	10 / box	R59863
Helmets and visors			
	Dräger X-plore® 8000 Welding visor with ADF 9-13	1 / box	R59920
	Dräger X-plore® 8000 Protective visor	1 / box	R59900
Accessories			
	Sweatband for Dräger X-plore® 8000 Helmet with visor	10 / box	R58330
	Sweatband for Dräger X-plore® 8000 Protective visor	10 / box	R59904
	Sweatband for Dräger X-plore® 8000 Welding visor	10 / box	R59921
	Protective foils for Dräger X-plore® 8000 Helmet with visor and Protective visor	10 / box	R58328
	Earmuffs for Dräger X-plore® 8000 Helmet with visor, pair	1 / box	R58329
	Spare visor AC for Dräger X-plore® 8000 Helmet with visor	1 / box	R58332
	Spare visor PC for Dräger X-plore® 8000 Helmet with visor	1 / box	R58331
	Spare visor PC for Dräger X-plore® 8000 Protective visor	1 / box	R59901
	Head harness for Dräger X-plore® 8000 Helmet with visor	1 / box	R58334
	Face seal for Dräger X-plore® 8000 Helmet with visor	1 / box	R58333

## AIR PURIFYING RESPIRATORS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
	Face seal for Dräger X-plore® 8000 Protective visor	1 / box	R59902
	Head cover for Dräger X-plore® 8000 Protective visor	1 / box	R59903
	Dräger X-plore® Tyvek protective hood	1 / box	R55354
	Helmet protection bag	1 / box	R59282
	Helmet bag	1 / box	R58555
<b>Masks</b>			
Full face masks	Dräger X-plore® 6300 EPDM/PMMA	1 / box	R55800
	Dräger X-plore® 6530 EPDM/PC	1 / box	R55795
	Dräger X-plore® 6570 SI/PC	1 / box	R55790
	Dräger FPS® 7000 EPDM-S1-PC-CR	1 / box	R56502
	Dräger FPS® 7000 EPDM-M2-PC-CR	1 / box	R56310
	Dräger FPS® 7000 EPDM-L2-PC-CR	1 / box	R56503

## TECHNICAL DATA

<b>Dräger hoods</b>	
Approval – respiratory protection	NIOSH 42 CFR Part 84 (in combination with Dräger X-plore® 8500)
Hood material	Standard hoods: PP/PE Premium hoods: PA, PU-coated
Visor material	PC
Size	Size S/M (scope 20.4 in. (52 cm) up to 23.2 in. (59 cm) Size L/XL (scope 22.4 in. (57 cm) up to 25.2 in. (64 cm)
Weight	Short hoods, standard: approximately 5.1 oz. (145 g) Short hoods, premium: approximately 7.0 oz. (200 g) Long hoods, standard: approximately 7.2 oz. (205 g) Long hoods, premium: approximately 13.6 oz. (390 g)
Temperature range (operation)	14°F (-10°C) to 140°F (+60°C)
Head harness	Adjustable strap (neck area and above the head), sweatband, removable (area of the forehead)
Hose connection	Hose nozzle Dräger X-plore® 8000 (behind)
Air outlet	Permeable material in the chin area



## AIR PURIFYING RESPIRATORS

### TECHNICAL DATA

Dräger full-face masks	
Approval	NIOSH 42 CFR Part 84 (in combination with Dräger X-plore® 8500)
Mask body	Robust and skin-friendly EPDM (Dräger X-plore® 6300, 6530, FPS® 7000); skin-friendly silicone, which is highly flexible at high/low temperatures (Dräger X-plore® 6570)
Visor	Scratch-proofed PMMA (Dräger X-plore® 6300), shock-resistant PC (Dräger X-plore® 6530, 6570, FPS® 7000)
Size	Universal size (Dräger X-plore® 6000 masks) Sizes S, M and L (FPS® 7000)
Weight	About 17.6 oz. (500 g) up to 23.0 oz. (650 g) (depending on the model)
Head harness	5-point head harness made of SI or EPDM
Hose connection	Standard thread connection Rd40 (RA) according to EN 148-1
Air outlet	Exhalation valve

## AIR PURIFYING RESPIRATORS

## TECHNICAL DATA

Dräger helmets with visors and protective visors			
Criteria	Dräger X-plore® 8000 helmet with visor	Dräger X-plore® 8000 protective visor	Dräger X-plore® 8000 welding visor
Approval – respiratory protection	NIOSH 42 CFR Part 84 (in combination with Dräger X-plore® 8500)	NIOSH 42 CFR Part 84 (in combination with Dräger X-plore® 8500)	NIOSH 42 CFR Part 84 (in combination with Dräger X-plore® 8500)
Approval – head protection	ANSI Z89.1 – 2003	–	–
Approval – eye protection	ANSI Z87.1 – 2010	ANSI Z87.1 – 2010	ANSI Z87.1 – 2010
Material visor	PC (AC available as spare part)	PC	PC (protective plate outside)
Material helmet	ABS	–	–
Material frame of visor	PA	PA	PA
Material face seal	PA coated with PU	PA coated with PU	Proban®
Weight	22.2 oz. (630 g)	17.3 oz. (490 g)	30.0 oz. (850 g) (incl. ADF), 24.3 oz. (690 g) (without ADF)
Size of visor	12.6 in. (32 cm) x 6.3 in. (16 cm)	12.6 in. (32 cm) x 6.1 in. (15,5 cm)	3.5 in. (9 cm) x 4.3 in. (11 cm)
Colour	Entire black/white helmet with black frame and face seal	Black	Black
Temperature range (operation)	23 °F (-5° C) to 122 °F (+50 °C)	23 °F (-5 °C) to 131 °F (+55 °C)	23 °F (-5 °C) to 131 °F (+55 °C)
Head harness	Ratchet, adjustable 20.0 in. (51 cm) to 24.8 in. (63 cm) Sweatband	Adjustment wheel 20.0 in. (51 cm) to 25.2 in. (64 cm) Sweatband	Adjustment wheel 20.5 in. (52 cm) to 23.6 in. (60 cm) Sweatband
Air inlet	Hose connector at the back	Hose connector at the back	Hose connector at the back
Air distribution	Air duct over the head	Air duct over the head	Air duct over the head
Air outlet	Duffus + air outlet in the chin area covered with textile (PA coated with PU)	Duffus	Duffus

## SELF CONTAINED BREATHING APPARATUS

### SUPPLIED AIR RESPIRATORS

Dräger PAS® Colt 45

### NIOSH SCBA

Dräger PAS® Lite 47

Dräger PSS® 3000 50

### NFPA-CERTIFIED SCBA

Dräger PSS® 5000 52

Dräger PSS® 7000 54

Secor 7000 56

Panorama Nova Dive 59

PSS® BG 4 plus 61

Dräger FPS®-COM 5000 64

Dräger FPS®-COM 7000 66

## SELF CONTAINED BREATHING APPARATUS

**BREATHE EASY – INDEPENDENT OF THE AIR AROUND YOU.**



Combining comfort with exceptional performance, it is designed for applications where simplicity and ease-of-use are essential. Lightweight yet robust, and easy to wear, this advanced breathing apparatus provides the ultimate breathing protection.

These products supply the wearer with breathable air from a compressed air vessel or through a pneumatic system connected with hoses. When selecting SCBAs, it's important to consider that you need as much protection as necessary with as little weight as possible – so you can get the job done without hindrance.

## SELF CONTAINED BREATHING APPARATUS

## Dräger PAS® Colt

### Short Term Breathing Apparatus

Combining versatility, ease-of-use, and the latest in breathing apparatus design, Dräger's PAS® Colt is among the most technologically advanced, short duration, and emergency escape units available.



## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER PAS® COLT

Dräger PAS® Colt			
PAS® Colt SAR w/ Panorama Nova® Mask, Hansen Brass		1 / box	4057628
PAS® Colt SAR w/ NO Mask, Hansen Brass		1 / box	4057629
PAS® Colt 5 min w/ Panorama Nova® Mask, 2216 PSI Aluminum Cyl, Hansen Brass		1 / box	4046205
PAS® Colt 5 min w/ NO Mask, 2216 PSI Aluminum Cyl, Hansen Brass		1 / box	4046206
PAS® Colt 10 min w/ Panorama Nova® Mask, 3000 PSI Aluminum Cyl, Hansen Brass and ASV		1 / box	4046209
PAS® Colt 10 min w/ NO Mask, 3000 PSI Aluminum Cyl, Hansen Brass and ASV		1 / box	4046210
FPS® 7000 Small, EPDM, NIOSH		1 / box	R56249
FPS® 7000 Medium, EPDM, NIOSH		1 / box	R56200
FPS® 7000 Large, EPDM, NIOSH		1 / box	R56300
Panorama Nova®, EPDM		1 / box	R52972
PAS® Colt Configurable		1 / box	R62985

## TECHNICAL DATA

Standard	NIOSH 42 CFR part 84 - 19C	NIOSH 42 CFR part 84 - 13F
Size (H x W x D)—Min (in)	31.1 x 19.6 x 2.7 in.	21.6 x 19.6 x 2.7 in.
Size (H x W x D)—Max (in)	37.4 x 19.6 x 2.7 in.	25.1 x 19.6 x 2.7 in.
Weight (lb.)	3.5 lbs	5.5 lbs
Input Pressure Cylinder (PSI)	NA	2216 or 3000 PSI
Input Pressure Airline (PSI)	87–130.5 PSI	87–130.5 PSI
Nominal 1st stage output Pressure (PSI)	101.5 PSI	101.5 PSI
1st stage output Flow (l/min)	>600	>600
LDV Output flow (l/min)	>400	>400
Whistle activation pressure (PSI)	58–72.5 PSI	798–870 PSI
Whistle Sound Level (dBA)	>90	>90
Whistle Frequency Range (Hz)	2,000–4,000	2,000–4,000
Operating Temperature Range	-25.6 °F to 158 °F (-32 °C to 70 °C)	-25.6 °F to 158 °F (-32 °C to 70 °C)

## SELF CONTAINED BREATHING APPARATUS

## Dräger PAS® Lite Self-Contained Breathing Apparatus

For use in industrial applications where a simple, robust, and easy-to-use breathing apparatus is required, the Dräger PAS® Lite Self-Contained Breathing Apparatus (SCBA) combines reliability with comfort and performance.



## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER PAS® LITE</b>			
SCBA variants			
<b>PAS® Lite with integrated Lung Demand Valve (LDV); Facemask and cylinder sold separately</b>			
PAS® Lite – 2216 psi		1 / box	4046190
PAS® Lite – 4500 psi		1 / box	4046191
<b>PAS® Lite with integrated Lung Demand Valve (LDV), Panorama Nova Facemask and 30-minute aluminum cylinder</b>			
PAS® Lite Kit – 2216 psi without SCBA case		1 / box	4046192
PAS® Lite Kit – 2216 psi with SCBA case		1 / box	4046193
<b>PAS® Lite with integrated Lung Demand Valve (LDV), integrated Charge-Air connection, 60-minute 4500 psi cylinder, FPS® 7000 Facemask, and mask storage bag</b>			
PAS® Lite Charge-Air – 4500 psi		1 / box	40461909
<b>PAS® Lite with integrated Lung Demand Valve (LDV) and integrated Airline complete with an automatic switchover valve (ASV); Facemask and cylinder sold separately</b>			
PAS® Lite Airline – 2216 psi		1 / box	4046194
PAS® Lite Airline – 4500 psi		1 / box	4046197
PAS® Lite Configurable		1 / box	R62983
Accessories			
FPS® 7000 Facemask (NIOSH)		1 / box	R56200
Panorama Nova® Facemask		1 / box	R52972
PAS® ASV Upgrade Kit for PAS® Lite and PSS® 3000		1 / box	3358850
Cylinders			On request
LDV Holder		1 / box	3357527
Breathing Apparatus Hard-shell Carrying Case		1 / box	4059430
Breathing Apparatus Storage Cabinet (polycarbonate)		1 / box	3310260



## SELF CONTAINED BREATHING APPARATUS

### TECHNICAL DATA

Physical Specifications	
Dimensions (H x W x D)	23.2 x 11.4 x 6.3 in. (59 x 29 x 16 cm)
Weight (including LDV)	5.95 lb. (2.70 kg)
Weight with Integrated PAS ASV (including LDV)	7.72 lb. (3.50 kg)
Input Pressure	2216 Psi, 4500 psi
Nominal 1st Stage Output Pressure	87-130 psi
1st Stage Output Flow	>1000 L/min
LDV Output Flow	>400 L/min
Whistle Activation Pressure	554 Psi, 1125 psi
Whistle Sound Level	>90 dBA
Approvals	NIOSH

## SELF CONTAINED BREATHING APPARATUS

## Dräger PSS® 3000

### Self-Contained Breathing Apparatus

The Dräger PSS® 3000 is a new generation of high-performing breathing apparatus for industrial applications. Combining comfort with exceptional performance, it is designed for applications where simplicity and ease-of-use are essential. Lightweight yet robust, and easy to wear, this advanced breathing apparatus provides the ultimate breathing protection.



## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER PSS® 3000

## SCBA variants

## PSS® 3000 Base SCBA; Lung Demand Valve (LDV), Facemask and cylinder sold separately

PAS® Lite – 2216 psi		1 / box	4046195
PAS® Lite – 4500 psi		1 / box	4046196

## PSS® 3000 with integrated Charge-Air connection, Lung Demand Valve (LDV), 60-minute 4500 Psi cylinder, FPS® 7000 Facemask, and mask storage bag

PSS® 3000 Charge-Air – 4500 psi		1 / box	4046214
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## PSS® 3000 with integrated Airline complete with an automatic switchover valve (ASV); Lung Demand Valve (LDV), Facemask and cylinder sold separately

PSS® 3000 Airline – 2216 psi		1 / box	4046200
PSS® 3000 Airline – 4500 psi		1 / box	4046202
PSS® 3000 Configurable		1 / box	R62982

## Accessories

FPS® 7000 Facemask (NIOSH)		1 / box	R56200
Panorama Nova® Facemask		1 / box	R52972
PAS® ASV Upgrade Kit for PAS® Lite and PSS® 3000		1 / box	3358850
Cylinders			On request
LDV Holder		1 / box	3357527
Breathing Apparatus Hard-shell Carrying Case		1 / box	4059430
Breathing Apparatus Storage Cabinet (polycarbonate)		1 / box	3310260

## TECHNICAL DATA

## Physical Specifications

Dimensions (H x W x D)	23.2 x 11.4 x 6.3 in. (59 x 29 x 16 cm)
Weight (including LDV)	5.95 lb. (2.70 kg)
Weight with Integrated PAS ASV (including LDV)	7.72 lb. (3.50 kg)
Input Pressure	2216 psi, 4500 psi
Nominal 1st Stage Output Pressure	87-130 psi
1st Stage Output Flow	>1000 L/min
LDV Output Flow	>400 L/min
Whistle Activation Pressure	554 Psi, 1125 psi
Whistle Sound Level	>90 dBA
Approvals	NIOSH

## SELF CONTAINED BREATHING APPARATUS

## Dräger PSS® 5000

### NFPA-Certified SCBA

Effective firefighting requires trusted breathing protection in the harshest environments. The Dräger PSS® 5000 provides the budget-conscious fire department with an ergonomically advanced SCBA. With a wide range of features—such as bi-lateral hose routing and cylinder Quick Connection—the PSS® 5000 meets the needs for today's complex fire grounds.

#### Tough Materials

Comprised of flame-resistant, abrasion resistant, and water-resistant materials

#### Pivoting lumbar support waist belt

Allows free movement while holding the SCBA firmly in position

#### Quick Connect cylinder attachment

Enables a secure change of cylinders in less than 10 seconds

#### Sentinel 7000 digital monitor with integrated personal alert safety system (PASS)

Communicates wirelessly with HUD

#### Optional Buddy Breather

Keeps an emergency breathing supply system within easy reach



D-5612-2019

## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER PSS® 5000</b>			
Dräger PSS® 5000 Self Contained Breathing Apparatus			
	Dräger PSS® 5000 High Pressure 4500 PSI Quick Connect w/ Sentinel 7000	1 / box	4050033
	Dräger PSS® 5000 Low Pressure 2216 PSI Quick Connect w/ Sentinel 7000	1 / box	4050022
	Dräger PSS® 5000 High Pressure 4500 PSI CGA w/ Sentinel 7000	1 / box	4050021
	Dräger PSS® 5000 Low Pressure 2216 PSI CGA w/ Sentinel 7000	1 / box	4050015
Dräger FPS® 7000 Mask			
	Dräger FPS® 7000 P18 Small, w/ Hairnet	1 / box	R63090
	Dräger FPS® 7000 P18 Medium, w/ Hairnet	1 / box	R63091
	Dräger FPS® 7000 P18 Large, w/ Hairnet	1 / box	R63092
	Dräger FPS® 7000 Head-Up Display (HUD)	1 / box	3356555
Dräger FPS® 7000 Communication Options			
	Dräger FPS® COM 5000	1 / box	See page 64
	Dräger FPS® COM 7000	1 / box	See page 66
UEBSS (Buddy Breather)			
	Dräger UEBSS Pouch	1 / box	3367426
	Dräger UEBSS 40" w/o Pouch	1 / box	3367467
Cylinders			
	30, 45, 60 Minute Cylinders	1 / box	On request

## TECHNICAL DATA

Dräger PSS® 5000 with Dräger Sentinel 7000	
Weight w/empty 45-min cylinder	24.8 lb. (11.25 kg)
Input pressure (psi)	Low-pressure, 2,216; high-pressure, 4,500
Nominal first stage output pressure (psi)	108
First stage output flow (L/min)	>1,000
LDV output flow (L/min)	>500
Whistle activation pressure (psi)	Low-pressure, 819; high-pressure, 1665
Whistle sound level (dBA)	>90
ADSU main alarm (dBA)	>95
Approvals	NFPA 1981 & 1982, 2018 Edition

## SELF CONTAINED BREATHING APPARATUS

## Dräger PSS® 7000

### NFPA-Certified SCBA

Before you can protect the lives of others, you have to protect yourself. The Dräger PSS® 7000 self-contained breathing apparatus (SCBA) provides unmatched comfort, durability, and safety in the harshest environments. With unparalleled ergonomic performance, the PSS® 7000 combines trusted pneumatics, flexible fit, and cylinder Quick Connection, freeing the firefighter to concentrate on the task at hand.

#### Reflective, luminescent shoulder straps

Reduce potential snag points and enhance visibility in the darkest situations

#### Three-point, height-adjustable backplate

Easily adjusts to give each firefighter a customized fit

#### Pivoting and sliding

Lumbar assembly floats and enables free movement

#### Tough Materials

Comprised of flame-resistant, abrasion resistant, and water-resistant materials

#### Sentinel 7000 digital monitor with integrated personal alert safety system (PASS)

Communicates wirelessly with HUD

#### Optional Buddy Breather

Keeps an emergency breathing supply system within easy reach

#### Quick Connect cylinder attachment

Enables a secure change of cylinders in less than 10 seconds



D-5613-2019

## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER PSS® 7000</b>			
Dräger PSS® 7000 Self Contained Breathing Apparatus			
	Dräger PSS® 7000 HP Quick Connect w/ Sentinel 7000 w/ LDV	1 / box	4050013
	Dräger PSS® 7000 LP Quick Connect w/ Sentinel 7000 w/ LDV	1 / box	4050012
	Dräger PSS® 7000 HP CGA w/ Sentinel 7000 w/ LDV	1 / box	4050011
	Dräger PSS® 7000 LP CGA w/ Sentinel 7000 w/ LDV	1 / box	4050010
Dräger FPS® 7000 Mask Accessories			
	Dräger FPS® 7000 Face Mask (Small)	1 / box	R63090
	Dräger FPS® 7000 Face Mask (Medium)	1 / box	R63091
	Dräger FPS® 7000 Face Mask (Large)	1 / box	R63092
	Dräger FPS® 7000 Head-Up Display (HUD)	1 / box	3356555
Dräger FPS® 7000 Communication Options			
	Dräger FPS® COM 5000	1 / box	See page 64
	Dräger FPS® COM 7000	1 / box	See page 66
UEBSS (Buddy Breather)			
	Dräger UEBSS Pouch	1 / box	3367426
	Dräger UEBSS40" w/o Pouch	1 / box	3367467
Cylinders			
	30, 45, 60, Minute Cylinders	1 / box	On request

## TECHNICAL DATA

Dräger PSS® 7000 with Dräger Sentinel 7000	
Weight w/empty 45-min cylinder	25.6 lb. (11.61 kg)
Input pressure (psi)	Low-pressure 2,216; high-pressure 4,500
Nominal first stage output pressure (psi)	108
First stage output flow (l/min)	>1,000
LDV output flow (l/min)	>500
Whistle activation pressure (psi)	Low-pressure 819; high-pressure 1665
Whistle sound level (dBA)	>90
ADSU main alarm (dBA)	>95
Approvals	NFPA 1981 & 1982,2018 Edition

## SELF CONTAINED BREATHING APPARATUS

## Dräger Secor 7000

### Diving Regulator

The Dräger Secor 7000 regulator, consisting of a first and second stage, was developed for professional divers. To ensure comfortable diving, the hose can be connected to the second stage either from the left or right side. Secor 7000 is compatible with the full face mask Panorama Nova Dive. The pneumatic system can be individually configured using different outlets on the first stage.

#### First stage

- diaphragm-controlled
- supply-pressure-compensated
- no decline in airflow

#### Individual configuration

- Three high-pressure (HP) ports and five medium-pressure (MP) ports to connect as needed
- High flexibility in configuring the pneumatics



D-103802-2016

Service pressure  
of 3000 psi (yoke)  
or 4500 psi (DIN)



D-10378-2016

#### Second stage

- downstream, balanced, with integrated pressure-relief valve
- hose connection on both sides
  - fits perfectly with the Dräger Panorama Nova Dive



## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER SECOR 7000</b>			
Dräger Secor 7000			T54400
Yoke 1st stage			T54507
DIN 1st stage			T54513
2nd stage, mouthpiece, flex hose			T54558
2nd stage, FFM, flex hose			T54559
Octopus, mouthpiece, flex hose			T54564
Octopus, FFM, flex hose			VN00342
2nd stage, mouthpiece, rubber hose			T54565
2nd stage, FFM, rubber hose			T54566
Octopus, mouthpiece, rubber hose			T54567
Octopus, FFM, rubber hose			VN00343
Triple console with pressure gauge, and depth gauge and compass			T54568
Low-pressure warning device			T53615
Inflator hose, 0.78 m			T54186
Panorama Nova Dive			T53510
Panorama Nova Dive Sport			T53700
Dräger PSS® Dive			T54500

## TECHNICAL DATA

<b>Dräger Secor 7000</b>	
Water temperature	2 °C to 40 °C (35.6 °F to 104 °F)
<b>Pressure gauge, 1st stage, DIN</b>	
Inlet	Max. 300 bar / 4,351 PSI, Handwheel connection (DIN EN 144 G 5/8 standard)
High-pressure outlet	3 ports, 7/16-20 UNF, O-ring seal
Medium-pressure outlet	5 ports, 3/8-24 UNF, O-ring seal, 8.8 to 9.8 bar / 127 to 142 PSI
Principle	Diaphragm-operated, supply-pressure-compensated
Material	Chrome-plated brass
Weight	785 g (1.73 lb)
<b>Pressure reducer, 1st stage, INT</b>	
As before, except:	
Inlet	Max. 232 bar/3,364 PSI, with INT yoke adapter CGA 850
Weight	960 g (2.11 lb)

## SELF CONTAINED BREATHING APPARATUS

### Lung demand valve, 2nd stage, mouthpiece

Principle	Downstream, balanced
Material mouthpiece, diaphragm and exhalation valve	Silicone
Connection	3/8-24 UNF
Medium-pressure hose	Various lengths for different applications
Weight	230 g (0.51 lb)

### Lung demand valve, 2nd stage, full-face mask

Principle	Downstream, balanced
Material diaphragm and exhalation valve	Silicone
Connection	3/8-24 UNF
Medium-pressure hose with coupling and pressure-relief valve	Various lengths for different applications
Weight	230 g (0.51 lb)

## SELF CONTAINED BREATHING APPARATUS

### Dräger Panorama Nova Dive Diving Full-Face Mask

The Panorama Nova Dive is a full-face mask that offers various connection possibilities for regulators, underwater communication, and a low pressure warning. It allows the professional user to dive comfortably under difficult conditions.



## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER PANORAMA NOVA DIVE</b>			
	Panorama Nova Dive Sport (Without Mask Box)		T53700
	Panorama Nova Dive		T53510
	Klar-Pilot Gel, 50 ml		R52560

## TECHNICAL DATA

<b>Weight</b>	
Panorama Nova Dive / Sport	940 g / 2 lb 1 oz
Operating Temperature	-20 to 50 °C / -4 to 122 °F
Storage Temperature	-30 to 70 °C / -22 to 158 °F
<b>Exhalation Valve Opening Pressure</b>	
Panorama Nova Dive	3.2 to 6.0 mbar
Panorama Nova Dive NM/R	25 to >25 mbar

## SELF CONTAINED BREATHING APPARATUS

## Dräger PSS® BG 4 plus Breathing Apparatus

Specially designed for demanding tasks, The Dräger PSS® BG 4 plus closed-circuit breathing apparatus combines uncompromising safety with outstanding respiratory protection and wearer comfort. Innovative in design, it provides the wearer with up to four hours of breathing gas in toxic environments.

**Breathing hose**

Ideal balance and freedom of movement due to positioning of the hose over the shoulders

**Reflective stripes**

Clear visibility, even in dark environments

D-23567-2009

**Robust housing**

Fiber reinforced housing protects you and your equipment

**“Pull-Forward” waist belt and adjustable shoulder straps**

Easy donning in confined spaces as well as high quality ergonomics

## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER PSS® BG 4 PLUS</b>			
Dräger PSS® BG 4, 4-hour Positive Pressure Closed Circuit Breathing Apparatus with Sentinel II, USA	High pressure, NIOSH		4057380
Dräger PSS® BG 4, 4-hour Positive Pressure Closed Circuit Breathing Apparatus with Sentinel II, USA, Complete with Mask, L.W. Carbon Cylinder and Valve and Black Pelican Case	High pressure, NIOSH		4057227
Dräger PSS® BG 4, 4-hour Positive Pressure Closed Circuit Breathing Apparatus with Sentinel II, USA, Complete with FPS 7000 Hydration Mask, L.W. Carbon Cylinder and Valve and Black Pelican Case	High pressure, NIOSH		4058823
<b>Required for operation</b>			
Dräger FPS 7000 RP-EPDM-M2-PCas-CR	Full face mask with central connecting for closed circuit breathing apparatus Dräger PSS® BG 4 plus. Mask body, inner mask and head harness made of EPDM. With anti-scratch coated polycarbonate visor and wiper. Available as an option is the CamelBak drinking system		R56326
Further variants and sizes on request			
<b>Accessories for communication</b>			
Dräger FPS COM 5000 RP Voice Amp Only			R62992
Dräger FPS COM 5000 RP Voice Amp & Radio Connection			R62993
Dräger FPS COM 5000 RP Voice Amp & Drinking Adapter			R62994
Dräger FPS COM 5000 RP Voice Amp, Drinking Adapter & Radio Connection			R62995

## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>Expansion sets</b>			
DraegerSorb 400			6737985
Filtermats	Package of 50		4058167
Dräger CO2 Single-Use Absorber			R34360
Freezer Canister			R33999
<b>Software Kit for Dräger PSS® BG 4 plus Sentinel II</b>			
Dräger Interface Software Bg Ir-Link II			3351342
Dräger PC Data Link Cable			3354304

## TECHNICAL DATA

<b>Dräger PSS® BG 4 plus</b>	
Duration of use	4 h according to EN 145 and NIOSH
Weight, ready for use (kg/pound)	15,5 kg / 34.17 pound (incl. mask, full oxygen cylinder (aluminum), CO <sub>2</sub> absorber and approx. 1,2 kg / 2.65 pound cooling ice)
Dimensions (H x W x D) (mm/inch)	595 x 450 x 185 mm 23.43 x 17.72 x 7.28 inches
Constant oxygen metering (l/min O <sub>2</sub> )	1.5 to 1.9
Minimum valve (l/min O <sub>2</sub> )	> 80
Breathing bag volume (l)	5.5
Bypass valve (l/min O <sub>2</sub> )	> 50
Operating temperatures	-40 °C / -40 °F to +90 °C / +194 °F (if stored at room temperature)
Approvals	EN 145, Ex protection according to EN IEC 60079, Eex IIC T4, Eex ial and NIOSH and MSHA

## SELF CONTAINED BREATHING APPARATUS

## Dräger FPS® -COM 5000

In an emergency, there is no time for misunderstanding. That's why Dräger developed the FPS-COM 5000 communication unit for NFPA-certified SCBAs. Designed to connect seamlessly to the Dräger FPS® 7000 full-face masks, this proven communication unit ensures clear communication through either a tactical voice amplifier or a radio – even in extreme conditions.

**Dual voice amps**

Deliver high volume sound directed toward the listener

**Wired radio connection**

Optional wired connection to more than 350 different tactical radios



D-6585-2016

**Flexible gooseneck earpiece**

Easily adjusts to conform to your head for maximum voice audibility



## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRAEGER FPS COM 5000 2018 EDITION (FOR FPS® 7000 P18)</b>			
	Dräger FPS® COM 5000 P18 Voice Amp only		R63301
	Dräger FPS® COM 5000 P18 Universal connection & cable		R63302
	Dräger FPS® COM 5000 P18 Waris connection & cable		R63303
	Dräger FPS® COM 5000 P18 Jedi connection & cable		R63304
	Dräger FPS® COM 5000 P18 Gcai connection & cable		R63305
	Dräger FPS® COM 5000 P18 Kenwood connection & cable		R63306
	Dräger FPS® COM 5000 P18 Bluetooth Motorola APX		R63307

## TECHNICAL DATA

FPS COM 5000 P18	
IECEX	EX ia I Ma EX ia IIC T4 Ga EX ia IIC T130°C/T95°C Da T4 (Ta = -30°C to +60°C)
USA, Canada UL913	Class I, II, III, Div. 1 Group A-G, T-code T4 T4 (Ta = -30°C to +60°C) NFPA 1981, 2018 Edition
Protection class	IP67
Batteries	2 x AAA
Operating time	Approx. 32 hours (dependent upon talk activity)
Ambient conditions during storage	-15°C/5°F to +25°C/77°F, 700 to 1,300 hPa, 10 to 95% relative humidity

## SELF CONTAINED BREATHING APPARATUS

## Dräger FPS®-COM 7000

The Dräger FPS®-COM 7000 provides standalone hands-free communication along with optional connection to tactical radios. Voice-activated, the FPS-COM 7000 provides full-duplex communication on one of seven user-selected channels. Up to 10 users per channel can be connected without using a tactical radio, which is especially ideal for special operations like hazardous materials response teams.



## SELF CONTAINED BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRAEGER FPS COM 7000 2018 EDITION (FOR FPS® 7000 P18)</b>			
	Dräger FPS® COM 7000 P18 Voice Amp only		R61343
	Dräger FPS® COM 7000 P18 Universal connection & cable		R61344
	Dräger FPS® COM 7000 P18 Waris connection & cable		R61345
	Dräger FPS® COM 7000 P18 Jedi connection & cable		R61346
	Dräger FPS® COM 7000 P18 Gcai connection & cable		R61347
	Dräger FPS® COM 7000 P18 Bluetooth Motorola APX		R61348
<b>Accessories</b>			
	C7 configuration software with update cable		R61320

## TECHNICAL DATA

FPS COM 7000 P18	
	NFPA 1981, 2018 Edition
Approvals	IECEX: Ex ia IIC T4/ T3 Ga (Ta = -22°F (-30°C) to 122°F (50°C)) CAN/CSA: Class I, Div. 1, Groups A-D T3/T4 CE 2004/108/EC, 1999/5/EC, 94/9/EG
Protection class	IP67
Wireless frequencies	902 – 928 Mhz
Transmission power	10 mW
Radio coverage	approx. 328 ft (100 m) line of sight, approx. 98 ft (30 m) indoors
Number of talk Groups	Configurable, Maximum of 10 groups per device
Communication type	voice-activated, duplex
Batteries	2xAA batteries
Operating Time	approx. 8 hrs (Dependent on talk activity)
Ambient conditions during storage	5°F (-15°C) to 77°F (+25°C), 700 to 1,300 hPa, 10 to 95% rel. humidity

## EMERGENCY ESCAPE BREATHING APPARATUS

### ESCAPE HOODS

Dräger PARAT® 70

### EMERGENCY ESCAPE BREATHING APPARATUS

Dräger Saver CF N (NIOSH) 73

## EMERGENCY ESCAPE BREATHING APPARATUS

**BREATHE EASY – INDEPENDENT OF THE AIR AROUND YOU.**



In emergency situations, conditions can deteriorate rapidly. Ambient breathing air can be suddenly filled with smoke or toxic fumes and rapid escape is the only available option. The Dräger's Emergency Escape Breathing Apparatus allows safe, effective and uncomplicated escape from hazardous environments.

Respiratory protection even in the most extreme conditions Dräger filtering and constant flow devices are easily ready for use in a few simple steps. Immediately after donning, workers can escape the danger zone, reliably.

### ADVANTAGES :

- A wide range of emergency escape breathing apparatus': from the easy-to-use filter, particularly compact, to the insulators associated with a hood or mask to innovative oxygen generation with a range of up to 15 minutes
- Easy and fast implementation even for untrained people
- Compact and robust packaging / case
- Numerous versions: with or without hood, different durations of protection, training units available
- Economical: up to 10 years of maintenance-free use
- Our technical sales representatives advise you on the most suitable solution
- Maintenance and service by our DrägerService Service Center.

## EMERGENCY ESCAPE BREATHING APPARATUS

## Dräger PARAT® Escape Hoods

Airborne toxins present an immediate danger to the health of a workforce. When environments turn toxic, a fast, safe escape is crucial. Dräger PARAT® Escape Hoods are designed to be easily donned, protecting users from toxic industrial and fire-related gases, vapors, and particles during escape.



## EMERGENCY ESCAPE BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER PARAT® ESCAPE HOODS

Dräger PARAT®			
Dräger PARAT® 4920, Soft Pack		1 / box	R59423
Dräger PARAT® 5510, Single Pack		1 / box	R59415
Dräger PARAT® 5520, Soft Pack		1 / box	R59425
Dräger PARAT® 5530, Hard Case		1 / box	R59435
Dräger PARAT® 7520, Soft Pack		1 / box	R59427
Dräger PARAT® 7530, Hard Case		1 / box	R59437
Dräger PARAT® Training Hood, Single Pack		1 / box	R59410
Dräger PARAT® Training Hood, Soft Pack		1 / box	R59420
Dräger PARAT® Training Hood, Hard Case			R59430
Accessories			
Replacement Filter Set: Dräger PARAT® 4920 (includes NIOSH Multigas/R95 Filter and security seal)		1 / box	R59473
Replacement Filter Set: Dräger PARAT® 5510 (includes CO P2 filter and label)		1 / box	R59474
Replacement Filter Set: Dräger PARAT® 5520/5530 (includes CO P2 filter and security seal)		1 / box	R59475
Replacement Filter Set: Dräger PARAT® 7500 (includes ABEK CO P3 filter and security seal)		1 / box	R59477
Wall Holder PIN PARAT® Hard Case		1 / box	R59451
Wall Holder HOOK PARAT® Hard Case		1 / box	R59452
Waist Belt, textile		1 / box	6733934
Waist Belt, plastic		1 / box	R53026
Shoulder Strap		1 / box	R59461
Belt Clip		1 / box	R59456
Grip Clip		1 / box	R59455

## EMERGENCY ESCAPE BREATHING APPARATUS

## TECHNICAL DATA

Physical Specifications	
Filter performance	<p>PARAT® 4900: NIOSH Multigas / R95 combination filter for toxic industrial gases, vapors, and particles</p> <p>PARAT® 5500: CO P2 combination filter against carbon monoxide and other fire-related gases, vapors, and particles</p> <p>PARAT® 7500: ABEK CO P3 combination filter against toxic gases, vapors, particles and fire-related gases</p>
Period of use	At least 15 minutes
Total service life	Sixteen years (provided the filter is exchanged after eight years)
Weight lb. (g)	<p>PARAT® 4920: 1.5 lb. (675 g)</p> <p>PARAT® 5510: 1.3 lb. (590 g), PARAT® 5520: 1.4 lb. (660 g)</p> <p>PARAT® 5530: 1.5 lb. (720 g)</p> <p>PARAT® 7520: 1.6 lb. (770 g)</p> <p>PARAT® 7530: 1.8 lb. (830 g)</p> <p>PARAT® Training Hood Single Pack: 1 lb. (440 g)</p> <p>PARAT® Training Hood Soft Pack: 1.1 lb. (510 g)</p> <p>PARAT® Training Hood Hard Case: 1.3 lb. (570 g)</p>
Dimensions: L X W X H in (mm)	<p>PARAT® 4920: 9.6 x 6.2 x 4.3 in (245 x 160 x 110)</p> <p>PARAT® 5510: 7.4 x 5.3 x 3.5 in (190 x 135 x 90)</p> <p>PARAT® 5520: 8.4 x 6.1 x 4.1 in (215 x 155 x 105)</p> <p>PARAT® 5530: 9.4 x 5.6 x 4.2 in (241 x 143 x 107)</p> <p>PARAT® 7520: 9.2 x 6.2 x 4.5 in (235 x 160 x 115)</p> <p>PARAT® 7530: 9.8 x 6.1 x 4.5 in (249 x 156 x 115)</p> <p>PARAT® Training Hood Single Pack: 7.4 x 5.3 x 3.5 in. (190 x 135 x 90)</p> <p>PARAT® Training Hood Soft Pack: 8.4 x 6.1 x 4.1 in. (215 x 155 x 105)</p> <p>PARAT® Training Hood Hard Case: 9.8 x 6.1 x 4.4 in. (249 x 156 x 114)</p>

## PARAT® 4900: NIOSH Approved and Independently Tested Gases &amp; Protection

Gas/Vapor	Test Concentration	Minimum Service Life (min.)	Tested by
Ammonia	1,000 ppm	25	NIOSH CFR 84.207
Chlorine	500 ppm	17.5	NIOSH CFR 84.208
Chlorine Dioxide	500 ppm	30	NIOSH CFR 84.209
Hydrogen Chloride	500 ppm	25	NIOSH CFR 84.210
Hydrogen Fluoride	70 ppm	30	NIOSH CFR 84.211
Hydrogen Sulfide	1,000 ppm	30	NIOSH CFR 84.212
Methylamine	1,000 ppm	12.5	NIOSH CFR 84.213
Organic Vapor Test	1,000 ppm	25	NIOSH CFR 84.214
HCN/Hydrogen Cyanide	500 ppm	50	Independent/In House Testing
Hg/Mercury Vapors	21.5 mg x m <sup>-3</sup>	60	Independent/In House Testing



## EMERGENCY ESCAPE BREATHING APPARATUS

## Dräger Saver CF N (NIOSH) Emergency Escape Breathing Apparatus

In emergency situations, conditions can deteriorate rapidly. Ambient breathing air can be suddenly filled with smoke or toxic fumes and rapid escape is the only available option. The Dräger Saver CF N constant flow Emergency Escape Breathing Apparatus allows safe, effective, and uncomplicated escape from hazardous environments.



## EMERGENCY ESCAPE BREATHING APPARATUS

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER SAVER CF N (NIOSH)

Dräger Saver CF NIOSH			
Saver CF5 N		1 / box	4042055
Saver CF10 N		1 / box	4042056
Saver CF15 N (Temporarily unavailable)		1 / box	4042057

## TECHNICAL DATA

	Dräger Saver CF NIOSH 5 Minute	Dräger Saver CF NIOSH 10 Minute	Dräger Saver CF NIOSH 15 Minute
Dimensions (NIOSH) (H x D x L)	9.4 x 7.0 x 12.5 in (240 x 180 x 320 mm)	9.4 x 7.0 x 17.3 in. (240 x 180 x 440 mm)	9.4 x 7.4 x 16.5 in. (240 x 190 x 420 mm)
Weight	8.7 lb. (3.98 kg)	11.2 lb. (5.12 kg)	12.0 lb. (5.45 kg)
Cylinder charging pressure	3,000 psi	3,000 psi	3,000 psi
Airflow to the hood	35–37 L/min	35–37 L/min	35–37 L/min
Operating temperature range	5 °F to 140 °F (-15 °C to +60 °C)	5 °F to 140 °F (-15 °C to +60 °C)	5 °F to 140 °F (-15 °C to +60 °C)
Approvals	NIOSH, ABS, SOLAS and TC	NIOSH, ABS, SOLAS and TC	NIOSH, ABS, SOLAS and TC
Storage temperature	5 °F to 77 °F (-15 °C and +25 °C)	5 °F to 77 °F (-15 °C and +25 °C)	5 °F to 77 °F (-15 °C and +25 °C)

## PORTABLE GAS DETECTION

### MULTI-GAS DETECTORS

Dräger X-am® 2500	77
Dräger X-am® 2800	81
Dräger X-am® 5000	89
Dräger X-am® 5600	96
Dräger X-am® 3500	102
Dräger X-am® 8000	107
Dräger X-pid® 9500	114

### AREA MONITORING

Dräger X-zone® 5800	118
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### CALIBRATION AND BUMP TESTING

Dräger X-dock® 5300/6300/6600	121
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### SINGLE-GAS DETECTORS

Dräger Pac® 6000	125
Dräger Pac® 6500	128
Dräger Pac® 8000	131
Dräger Pac® 8500	134
Dräger X-am® 5100	137

### WIRELESS HAZARD AREA MONITOR

X-site Live	140
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## PORTABLE GAS DETECTION

### SAFETY TO GO.



Many hazards in the workplace cannot be detected by human senses: some toxic gases, oxygen deficiency, some combustible gases and vapors. These hazards pose a serious threat to human life and plant safety in many industries. When it comes to the reliable detection of known and unknown gases, you can rely on portable gas detection technology from Dräger. Our extensive product range offers you the perfect solution for every application.

#### Profit from our experience.

The development of our Dräger-Tubes® more than seventy years ago laid the cornerstone for accurate gas detection. Today, thanks to continuous research and development, we now offer more than 250 Dräger-Tubes® able to detect over 500 substances. Combined with the Dräger chip measuring system, an electronic form of the tube, Dräger provides you with some of the most accurate and reliable means available for spot concentration measurement.

#### We take your protection personally.

Personal gas detection instruments are essential for providing workers with a reliable form of protection. Our sophisticated single-gas detectors are recommended for ensuring workplace safety when you need to be alerted to the presence of harmful gas concentrations.

Dräger multi-gas detectors offer a wide range of options, making them flexible companions in a variety of situations such as personal protection, area monitoring, and leak detection. Special accessories make it easier to work in places that are difficult to access, such as tanks or shafts, while ensuring that safe clearance is possible.

We continuously invest in sensor technology to ensure greater safety at work. Our sensor systems, including catalytic, infrared, electrochemical and photoionization detectors (PID), set standards in terms of sensitivity and longevity. Providing the world's largest number of electrochemical sensors to measure the widest variety of gases means that a perfect solution is available for each measurement task. Testing and calibration stations, portable printers, and complete workshop solutions ensure that your Dräger gas detection instruments are well maintained and ready for use at a moment's notice.

## PORTABLE GAS DETECTION

## Dräger X-am<sup>®</sup> 2500 Multi-Gas Detector

Dräger's X-am<sup>®</sup> 2500 accurately detects combustible gases, O<sub>2</sub>, CO, NO<sub>2</sub>, SO<sub>2</sub> and H<sub>2</sub>S and is the only 1-4 gas monitor you need in industrial and refinery applications. The X-am<sup>®</sup> 2500 combines reliable sensor technology with long battery life and intuitive operation in an instrument that defines safety. It is approved for most markets including mining, oil & gas, chemical, fire and hazardous response, government and many other applications.

**Safe gas entry**  
Gas entry from 2 sides

**Visual alarm**  
Alarm visible across 360°

**Robust design**  
Water and dust resistant in acc.  
with IP67

**Crocodile clip**  
Secure attachment

**Dräger sensors**  
Quick, precise, long service life

**Large display**  
All values at a glance



## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER X-AM® 2500</b>			
X-am® 2500			
	X-am® 2500 Ex/O <sub>2</sub> /CO/H <sub>2</sub> S, NiMH w/charger kit	1 / box	4542261
	X-am® 2500 Ex/O <sub>2</sub> /CO/H <sub>2</sub> S, Alkaline Battery Pack	1 / box	4542262
	X-am® 2500 configured per request	1 / box	8323900
Charging Accessories			
	Battery Charge Cradle	1 / box	8318639
	Charging kit consisting of a charging module and a single charger (worldwide)	1 / box	8320333
	Power Supply, Vehicle Adapter, 12 vdc	1 / box	4530057
	Single charger (worldwide use) for max. 5 charging modules - Requires 8325736 adapter	1 / box	8321849
	Power supply with connection cable (worldwide use) for max. 20 charging modules - Requires 8325736 adapter	1 / box	8321850
	Battery Charger Vehicle Mounting kit	1 / box	8318779
	Replacement Vehicle Mount Strap X-am® 1/2/5000 Series	1 / box	8318788
	Replacement Vehicle Mount Strap X-am® 1/2/5000 Series – US Version	1 / box	4543938
Pump Accessories			
	Dräger X-am® External Pump incl. USB charger with wall plug and shoulder strap	1 / box	8327115
	USB power supply	1 / box	8327102
	Shoulder strap	1 / box	8319386
	Case for Dräger X-am® External Pump	1 / box	8327104
	Filter with hose connector 3 x 5 mm (0.12 x 0.20 in)	1 / box	8319364
	Filter Set, 20 pieces per pack (no Luer adaptors)	20 / box	3705997
	Clamp, X-am Pump	1 / box	5600956
	Telescopic Probe ES150, 1.5 m (4.9 ft)	1 / box	8316533
	Telescopic Probe, 1.4 m (4.5 ft)	1 / box	4510546
	Telescopic Probe, 2 m (6.5 ft)	1 / box	4510545

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Float probe with Luer Adapter		1 / box	8327654
5 m / 16.4 ft FKM diameter 3 mm (0.12 in) hose 5 m (16.4 ft)		1 / box	8325705
Kit, pump inlet w/nut, X-am® 1/2/5		1 / box	4594854
Kit, MSHA PX2 Pump with adapter for X-am® 125		1 / box	4543982
Hand Pump Kit with 3m (10 ft) Tygon Tubing		1 / box	4594585
Water Trap, Dust/Mist Filter for Hand Pump Kit		1 / box	4523078

## TECHNICAL DATA

Dimensions (W x H x D)	48 x 130 x 44 mm (1.85 x 5.12 x 1.73 in)	
Weight	220 - 250 g (8 - 9 oz)	
Ambient conditions	Temperature	-20 to 50 C (-4 to 122 F)
	Pressure	700 to 1,300 mbar (20.7 to 38.4 inch Hg)
	Relative humidity	10 to 95 % r.h.
Protection class	IP67	
Alarms	Visual	360°
	Audible	Multi-tone > 90 dB at 30 cm (12 in)
	Vibration	
Operating times	> 12 h with alkaline and NiMH, > 168 h w/o Ex sensor with alkaline batteries > 250 h w/o Ex sensor with alkaline batteries	
Charging times	< 4 h	
Data logger	Retrievable using an infrared interface > 1000 h with 4 gases at a recording interval of 1 value per minute	
Pump operation	Maximum hose length 45 m (147 ft)	

## PORTABLE GAS DETECTION

## TECHNICAL DATA

		I M1 Ex ia I Ma, II 1G Ex ia IIC T3 Ga, I M2 Ex d ia I Mb, II 2G Ex d ia IIC T4/T3 Gb
		Performance approval to: Vibration
	ATEX	EN 50104(2002) + A1 (2004) O <sub>2</sub>
		EN 45544 CO & H <sub>2</sub> S
		EN 60079-29-1:2007 Methane to nonane
		EN 50271:2001 Software and documentation
Approvals	CSA (Canada & USA)	Class I, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G T.-Code T4/T3
		A/Ex ia IIC T3/Ga
		A/Ex d ia IIC T4/T3/Gb
	IECEX	Ex ia I Ma Ex ia IIC T3 Ga Ex d ia I Mb Ex d ia IIC T4/T3 Gb
	CE mark	Electromagnetic Compatibility (Directive 2004/108/EC); ATEX (Directive 94/9/EC)
	MED	Marine Equipment Directive (Directive 96/98/EC)
	MSHA	Permissible Gas Detector



## PORTABLE GAS DETECTION

## Dräger X-am<sup>®</sup> 2800

### Multi-Gas Detector

The X-am 2800 multi-gas detector measures up to four gases and is equipped with a shock-resistant CatEx sensor. With the Dräger Gas Detection Connect software, it offers live monitoring and powerful fleet management. Designed for personal monitoring, the X-am 2800 offers the highest level of safety at a low cost of ownership.



## PORTABLE GAS DETECTION

### TECHNICAL DATA

Dimensions (W x H x D)	130 x 48 x 44 mm (5.12 x 1.89 x 1.73 in)
Weight	typically 220 to 250 g (7.76 to 8.82 oz), depending on sensor equipment
Housing	robust 2-component housing
Display	Matrix display with high resolution
<b>Ambient conditions</b>	
Temperature	20 to +50 °C (-4 to 122 F) (Measurement and storage)
	-40 to +50 °C (-40 to 122 F) (Use in potentially explosive atmospheres)
Pressure	700 to 1300 mbar (Measurement)
	800 to 1100 mbar (Use in potentially explosive atmospheres)
Relative humidity	10 to 95 % r.h.
	5 to 95 % r.h. short term
Protection class	IP68
<b>Alarms</b>	
Visual	3 LED "red" (gas alarms)
	3 LED "yellow" (device alarm)
Audible	Multi-tone > 90 dB at 30 cm (12 in)
Vibration	
<b>Additional technical specifications</b>	
Energy supply	NiMH battery (no dangerous goods: UN marking) required during transport), replaceable by user, rechargeable
Bluetooth®	Bluetooth 5.0 (disabled for some countries outside the EU and outside North America, but can be retrofitted. Contact DrägerService).
Operating times	Approx. 12 h (Bluetooth active)
	Approx. typical 100 h without Ex-sensor
Charging time	< 4 h
Ready for measurement	< 60 s after switch-on
Data logger	Application of an optimised data compression method with high accuracy and large storage capacity. (Typically data compression >90 % compared to the traditional data logger concept with adjustable interval)

## PORTABLE GAS DETECTION

### Approvals

Marking Explosion protection:

ATEX	I M1 Ex da ia I Ma
	II 1G Ex da ia IIC T4 Ga (usable in Ex-Zone 0)
IECEX	Ex da ia I Ma
	Ex da ia IIC T4 Ga (usable in Ex-Zone 0)
CSA (USA & Canada)	CSA approval: cCSAus Class I, Zone 0, AEx da ia IIC T4 Ga Class II, Div 1, Gr. E, F, G
EAC	Contact Dräger for availability
Directives	2014/34/EU (ATEX)
	2014/53/EU (RED)
	2011/65/EU (RoHS)
Data logger	Application of an interval
<b>Manufacturer's warranty</b>	
4 years for the device (electronics and housing)	
3 years for the sensors (except NO <sub>2</sub> (1 year) and SO <sub>2</sub> (2 years))	
1 year for the energy supply (accumulator)	

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER X-AM® 2800</b>			
Dräger X-am® 2800			
	Dräger X-am 2800 Ex, O2, CO, H2S (Settings: Factory default settings with standard alarm thresholds, unit CatEx: "%LEL", with power supply (rechargeable battery), without charger, CatEx: methane adjustment, oxygen 0 – 25 vol.-% measuring range). (For charging, additionally e.g. the charging set Basic is required, part number: 8320333)		3703918
	Dräger X-am 2800 Set: 3703918 incl. power supply (rechargeable battery) and with charger/power supply unit		3703919
	Dräger X-am 2800 Basic (without sensors, without power supply (battery), without charger)		3703920
	Country versions or customer versions with individual settings (e.g. alarm thresholds) and individual sensor configurations		On request, please contact Dräger
Configurator			
	Dräger X-am 2800 (configurator) consisting of: Basic device (with data logger), delivery with manufacturer and calibration certificate. Configurator: up to 4 sensors can be selected, sensor configuration can be changed later in product life. Customer-specific settings (firmware) can be selected when ordering, examples: Measurement gas for the Ex sensor (factory setting: methane), alarm thresholds, alarm behaviour, quick menu options, D-light etc. Power supply (battery) optional (factory setting: with battery), without charger		3703900
	Instruction for use included in the standard scope of delivery in the following languages: GER, EN, FR, ES, PT, IT, NL, RU, ZH, JA		9300307
	Instruction for use available in other languages: DA, FI, NO, SV, PL, HR, SL, SK, CS, BT, RO, HU, EL, TR, KO, ET, LV, LT	Available as download on the product page: <a href="http://www.draeger.com/ifu">www.draeger.com/ifu</a> Part number: 9300428	
	Technical manual available in the following languages: : GER, EN, FR, ES, RU	Available as download on the product page: <a href="http://www.draeger.com/ifu">www.draeger.com/ifu</a> Part number: 9300310	
	Selected device options when placing the order	RFID transponder Number of instructions for use (for order n > 1) Bluetooth® communication protocol for integration into third-party systems (GATT license)	
	Bluetooth® communication protocol (GATT License) for subsequent activation		
	Dräger X-am Open GATT License (1 pc.)		3723353
	Dräger X-am Open GATT License (10 pc.)		3723354
	Dräger X-am Open GATT License (50 pc.)		3723355
	Slot 1: CatEx Sensor		
	Slot 2 – 4: Electrochemical Sensors in XXS Format		

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>Sensors</b>			
CatEx SR (Shock Resistant) <sup>1) 2)</sup> (factory setting: methane, other measuring gases selectable) methane, additional gases adjustable (propane, pentane, nonane, hydrogen and many more)	Measurement Range: 0 – 100 % LEL Resolution: 1 % LEL. > 4 years	1 / box	6851900
CatEx SR (Shock Resistant) 1) 2) (factory setting: methane, other measuring gases selectable) methane	Measurement Range: 0 – 5 Vol.-% CH <sub>4</sub> Resolution: 0.1 Vol.-%	1 / box	6851900
XXS O <sub>2</sub> <sup>1)</sup> (4 alarm thresholds) oxygen	Measurement Range: 0 – 25 Vol% Resolution: 0.1 Vol.-%. > 5 years	1 / box	6810881
XXS O <sub>2</sub> PR (4 alarm thresholds, increased robustness) oxygen	Measurement Range: 0 – 30 Vol.-% Resolution: 0.1 Vol.-%. > 5 years	1 / box	6800530
XXS CO LC <sup>1)</sup> carbon monoxide	Measurement Range: 0 – 2,000 ppm Resolution: 1 ppm. > 5 years	1 / box	6813210
XXS H <sub>2</sub> S LC <sup>1)</sup> hydrogen sulphide	Measurement Range: 0 – 100 ppm Resolution: 0.1 ppm. > 5 years	1 / box	6811525
XXS NO <sub>2</sub> nitrogen dioxide	Measurement Range: 0 – 50 ppm Resolution: 0.1 ppm. > 3 years	1 / box	6810884
XXS SO <sub>2</sub> (with KX-Filter) sulphur dioxide	Measurement Range: 0 – 100 ppm Resolution: 0.1 ppm. > 3 years	1 / box	6810885
<p>All sensors: Response time T90: &lt; 15 s (CatEx SR: specification for gas methane/propane)</p> <p>All sensors: Response time T90: &lt; 15 s (CatEx SR: specification for gas methane/propane)</p> <p>1) Manufacturer's warranty: 3 years, The statutory rights for defects remain unaffected, Manufacturer's warranty according to the conditions listed in the technical documentation.</p> <p>2) Special calibration for the Ex sensor is possible (default setting: methane, target gas calibration and cross calibration is possible).</p>			
CatEx SR, sample gas "Methane" Option: No blocking alarm for sample gas methane (2 sensitivity calibrations required, display: overrange)		For availability of the function: Please contact Dräger	

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>Power supply units/chargers</b>			
	Charging set Basic consisting of a charging module and a plug-in power supply (worldwide) (contents included in the scope of delivery in part number 3703919)		8320333
	Battery and charging set (2.0): NiMH supply unit T4 with charging module and power supply unit (complete set) (contents included in the scope of delivery in part number 3703919)		3703889
	NiMH supply unit T4 (2.0) (contents included in the scope of delivery in part numbers 3703918 and 3703919)		3703887
	Charging adapter (for charging a rechargeable battery without X-am unit)		8326101
	Charging module		8318639
	Plug-in power supply (worldwide) for charging 1 unit		8316997
	Plug-in power supply (worldwide) for up to 5 charging modules		8316994
	Adapter for power plug (only necessary for 8321849 and 8321850)		8325736
	Power supply unit 100-240 VAC; 1.33 A for up to 5 charging modules (power supply unit adapter 8325736 additionally required)		8321849
	Power supply unit 100-240 VAC; 6.25 A for up to 20 charging modules (power supply unit adapter 8325736 additionally required)		8321850
	Truck charger connection cable 12 V / 24 V for charging module (straight plug)		4530057
	Truck charger connection cable 230 V for charging module (straight plug, for use on 230 V sockets with the vehicle installation bracket in vehicles)		8315675
	Truck charger mounting bracket for a Dräger X-am® 1/2/5x00 charging module (base plate and strap). (also requires part number 4530057 or 8315675).		8318779
	Replacement strap for truck charger bracket		8318788
<b>Pump accessories</b>			
	Dräger X-am® Pump (external pump)		8327100
	GP600 Probe (plastic), with Luer connection		8328667
	Telescopic probe ES 150, stainless steel (connection for filter is included in SN 8319364 (dust/water filter)).		8316533
	Floating probe (transparent), with adapter		8327654
	5 m (16 ft) FKM hose, 3.2 mm, with adapters		8325705
	10 m (32 ft) FKM hose, 3.2 mm, with adapters		8325706
	20 m (66 ft) FKM hose, 3.2 mm, with adapters		8325707
	45 m (148 ft) FKM hose, 3.2 mm, with adapters		8325712
	Dust and water filter for pump inlet (replacement filter)		8319364
	Dust and water filter for pump inlet (replacement filter, 20 pieces)		3705997
	Confined space entry kit (free measuring) with external pump and 5 m (16 ft) FKM hose		8327117

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
	Empty case, with space for X-am® 1/2/5x00, charging accessories, probe, gas cylinder, pump, 3 m (10 ft) hose and much more.		8327112
	Other probes and hoses		On request
Calibration accessories			
	Calibration adapter for Dräger X-am® 1/2/5x00		8318752
	Further versions and accessories Dräger X-dock®		Please contact Dräger
	Automatic test station Dräger X-dock® 5300 (with master) 1/2/5x00		8321880
	Dräger X-dock module X-am 125		8321890
	Dräger X-dock module X-am 125+ (with charging function)		8321891
	Dräger Bump Test Station for Dräger X-am® 1/2/5x00 (without gas cylinder)		8319131
	Dräger Bump Test Station for Dräger X-am® 1/2/5x00 incl. gas cylinder 58 L (gas and concentration selectable)		8319130
	Test gas: CH4 2.5 vol%, O2 18 vol%, CO 50 ppm, H2S 15 ppm		6811130
	Test gas: Other types		Please contact Dräger
	Nonan tester for Dräger X-am® 1/2/5x00		8320080
	Other accessories (hoses, valves, etc.)		Please contact Dräger
Accessories for measured value acquisition and configuration			
	Dräger CC-Vision. Freeware ( <a href="http://www.draeger.com/software">www.draeger.com/software</a> )		
	Dräger GasVision license key. Trial Version ( <a href="http://www.draeger.com/software">www.draeger.com/software</a> )		8325646
	USB DIRA with USB cable, communication adapter infrared to USB (Note: Positioning is done with the calibration cradle. Pn: 8318752).		8317409
Dräger Gas Detection Connect			
	GDC Intro License includes: Access, infrastructure, connection of up to 99 X-dock stations, 5,000 credits, valid for one year after activation.		3719332
	GDC Basic License includes: IT infrastructure (data storage, maintenance, automatic feature updates, troubleshooting). 24/7 support, access		3719809
	GDC Asset License includes: Definable number of X-dock stations, requires the Basic License		3719810
	GDC Asset Lite includes: One X-dock station, non-expandable, does not require a Basic License		3719811
	GDC Credits includes: Definable number of credits for sending live data, orderable in packages of 1000 credits.		3719814

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Other accessories			
	Leather carrying case (black)		8318755
	Transponder reader (for reading the optionally integrated RFID transponder)		6559283
	Set of stickers X-am 2800/5800 silver (10x)		3703852
	Set of stickers X-am 2800/5800 red (10x)		3703853
	Set of stickers X-am 2800/5800 blue (10x)		3703854
	Set of stickers X-am 2800/5800 yellow (10x)		3703855
	Set of stickers X-am 2800/5800 green (10x)		3703856
	Set display protection cover X-am 2800/5800 (10x)		3703857
	E-set Upgrade RFID transponder (5 pcs.) (with adhesive tape)		3703898
	Seal ring extractor (for changing XXS sensors). (Selected sensors are supplied with a similar tool ex works).		R21402



## PORTABLE GAS DETECTION

## Dräger X-am<sup>®</sup> 5000 Multi-Gas Detector

The Dräger X-am<sup>®</sup> 5000 belongs to a generation of gas detectors, developed especially for personal monitoring applications. This 1- to 5-gas detector reliably measures combustible gases and vapors as well as O<sub>2</sub> and harmful concentrations of toxic gases, organic vapors, odorant and amine.

**Gas inlets:**  
At the top and the bottom  
for safe readings

**Visual alarm**  
Alarm visible across 360°

**Retroreflective label:**  
Easy to find in the dark  
or in water



**Dräger sensors**  
Quick, precise, long service life

**Large display**  
All values at a glance

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**DRÄGER X-AM® 5000**

## Dräger X-am® 5000

Consisting of: basic instrument with an integrated data logger and manufacturer's and calibration certificates.  
A functional instrument must include up to 4 sensors and a power supply unit.

8320000

## Sensors

CatEx 125 PR**	Measurement Range: 0 – 100 % LEL, 0 – 100 Vol.-% CH <sub>4</sub> Resolution: 1 % LEL, 1 Vol.-%	1 / box	6812950
Cat-Ex 125 PR Gas	Measurement Range: 0 – 100 % LEL, 0 – 100 Vol.-% CH <sub>4</sub> Resolution: 1 % LEL, 1 Vol.-%	1 / box	6813080
DrägerSensor XXS O <sub>2</sub> ***	Measurement Range: 0 – 25 Vol.-% Resolution: 0.1 Vol.-%	1 / box	6810881
DrägerSensor XXS O <sub>2</sub> PR	Measurement Range: 0 – 30 Vol.-% Resolution: 0.1 Vol.-%	1 / box	6800530
DrägerSensor XXS CO***	Measurement Range: 0 – 2,000 ppm Resolution: 2 ppm	1 / box	6810882
DrägerSensor XXS CO LC***	Measurement Range: 0 – 2,000 ppm Resolution: 1 ppm	1 / box	6813210
DrägerSensor XXS CO HC	Measurement Range: 0 – 10,000 ppm Resolution: 5 ppm	1 / box	6812010
DrägerSensor XXS CO / H <sub>2</sub> compensated	Measurement Range: 0 – 2000 COppm Resolution: 2 ppm	1 / box	6811950
DrägerSensor XXS H <sub>2</sub> S***	Measurement Range: 0 – 200 ppm Resolution: 1 ppm	1 / box	6810883
DrägerSensor XXS H <sub>2</sub> S LC***	Measurement Range: 0 – 100 ppm Resolution: 0.1 ppm	1 / box	6811525
DrägerSensor XXS H <sub>2</sub> S HC	Measurement Range: 0 – 1,000 ppm Resolution: 2 ppm	1 / box	6812015
DrägerSensor XXS CO / H <sub>2</sub> S	Measurement Range: 0 – 2,000 ppm CO / 0 – 200 ppm H <sub>2</sub> S Resolution: 1 ppm H <sub>2</sub> S / 2 ppm CO	1 / box	6811410
DrägerSensor XXS NO	Measurement Range: 0 – 200 ppm Resolution: 0.5 ppm	1 / box	6811545

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Dual Carbon Monoxide (CO) LC/Oxygen (O2) XXS	Measurement Range: 0-2000 PPM CO 1 ppm 2 - Yr Resolution: 0-25.0%Vol O2 0.1%Vol	368	6813275
Dual Hydrogen Sulfide (H2S) LC/Oxygen (O2) XXS	Measurement Range: 0-100 PPM H2S 0.1 ppm 2 - Yr Resolution: 0-25.0%Vol O2 0.1%Vol	368	6814137
DrägerSensor XXS H <sub>2</sub> S-LC / CO-LC	Measurement Range: 0 – 2000 ppm CO / 0-100 ppm H <sub>2</sub> S; Resolution: 0.1 ppm H <sub>2</sub> S / 1 ppm	1 / box	6813280
DrägerSensor XXS NO <sub>2</sub>	Measurement Range: 0 – 50 ppm Resolution: 0.1 ppm	1 / box	6810884
DrägerSensor XXS NO <sub>2</sub> LC	Measurement Range: 0 – 50 ppm Resolution: 0.02 ppm	1 / box	6812600
DrägerSensor XXS SO <sub>2</sub>	Measurement Range: 0 – 100 ppm Resolution: 0.1 ppm	1 / box	6810885
DrägerSensor XXS PH <sub>3</sub>	Measurement Range: 0 – 20 ppm Resolution: 0.01 ppm	1 / box	6810886
DrägerSensor XXS PH <sub>3</sub> HC	Measurement Range: 0 – 2,000 ppm Resolution: 1 ppm	1 / box	6812020
DrägerSensor XXS HCN	Measurement Range: 0 – 50 ppm Resolution: 0.1 ppm	1 / box	6810887
DrägerSensor XXS HCN PC	Measurement Range: 0 – 50 ppm Resolution: 0.5 ppm	1 / box	6813165
DrägerSensor XXS NH <sub>3</sub>	Measurement Range: 0 – 300 ppm Resolution: 1 ppm	1 / box	6810888
DrägerSensor XXS CO <sub>2</sub>	Measurement Range: 0 – 5 Vol.-% Resolution: 0.1 Vol.-%	1 / box	6810889
DrägerSensor XXS Cl <sub>2</sub>	Measurement Range: 0 – 20 ppm Resolution: 0.05 ppm	1 / box	6810890
DrägerSensor XXS H <sub>2</sub>	Measurement Range: 0 – 2,000 ppm Resolution: 5 ppm	1 / box	6812370
DrägerSensor XXS H <sub>2</sub> HC	Measurement Range: 0 – 4 Vol.-% Resolution: 0.01 Vol.-%	1 / box	6812025
DrägerSensor XXS OV	Measurement Range: 0 – 200 ppm Resolution: 0.5 ppm	1 / box	6811530
DrägerSensor XXS OV-A	Measurement Range: 0 – 200 ppm Resolution: 1 ppm	1 / box	6811535

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
DrägerSensor XXS Amine	Measurement Range: 0 – 100 ppm Resolution: 1 ppm	1 / box	6812545
DrägerSensor XXS Odorant	Measurement Range: 0 – 40 ppm Resolution: 0.5 ppm	1 / box	6812535
DrägerSensor XXS COCl <sub>2</sub>	Measurement Range: 0 – 10 ppm Resolution: 0.01 ppm	1 / box	6812005
DrägerSensor XXS Ozone	Measurement Range: 0 – 10 ppm Resolution: 0.01 ppm	1 / box	6811540
* Special calibration for Ex sensors are available (standard setting: Methane)			
** Dräger provides a 3 year guarantee on the Dräger X-am® 5000 and these sensors. The legal rights arising from defects remain unaffected.			
*** Dräger provides a 5 year guarantee on these sensors when installed in an Dräger X-am® 25/5x/35/8000			
Power supply units			
NiMH power pack T4		1 / box	8318704
Power pack & charging set Consisting of: rechargeable NiMH power supply T4, charging module and a single charger (for worldwide use)			8318785
Alkaline power pack T3 / T4 (without alkaline batteries)		1 / box	8322237
Alkaline batteries T4 (2 pc.) for alkaline power supply 8322237		2 / box	8322240
Charging accessories			
Charging module		1 / box	8318639
Charging set basic consisting of one charging module and a single power supply (worldwide use)		1 / box	8320333
Power supply with connection cable (worldwide use) for max. 20 charging modules - Requires 8325736 adapter		1 / box	8321850
Single charger (worldwide use) for max. 5 charging modules - Requires 8325736 adapter		1 / box	8321849
Car charging connection cable 12 / 24 V for a charging module		1 / box	4530057
Vehicle charger mounting kit for a X-am® 1/2/5x00 car charging module		1 / box	8318779

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Pump accessories			
	Dräger X-am® External Pump incl. USB charger with wall plug and shoulder strap	1 / box	8327115
	CSE Set for Dräger X-am® External Pump	1 / box	83 27117
	Customizable Expanded Dräger X-am® 5000/5600 CSE Kit with External Pump	1 / box	8327106
	USB 2.0 Cable	1 / box	8327108
	USB power supply	1 / box	8327102
	Shoulder strap	1 / box	8319386
	Case for Dräger X-am® External Pump	1 / box	8327104
	Filter with hose connector 3 x 5 mm (0.12 x 0.20 in)	1 / box	8319364
	Filter Set, 20 pieces per pack (no Luer adaptors)	20 / box	3705997
	Clamp, X-am Pump	1 / box	5600956
	Telescopic Probe ES150, 1.5 m (4.9 ft)	1 / box	8316533
	Telescopic Probe, 1.4 m (4.5 ft)	1 / box	4510546
	Telescopic Probe, 2 m (6.5 ft)	1 / box	4510545
	Float probe with Leur Adapter	1 / box	8327654
	5 m / 16.4 ft FKM diameter 3 mm (0.12 in) hose 5 m (16.4 ft)	1 / box	8325705
	Kit, pump inlet w/nut, X-am® 1/2/5 Spare	1 / box	4594854
	Kit, MSHA PX2 Pump with adapter for X-am 1/2/5	1 / box	4543982
	Hand Pump Kit with 3 m (10 ft) Tygon Tubing	1 / box	4594585
	Water Trap, Dust/Mist Filter for Hand Pump Kit	1 / box	4523078
Calibration accessories			
	Calibration cradle for X-am® 1/2/5x00	1 / box	8318752
	Dräger X-dock® for Dräger X-am® 1/2/5x00, not including gas cylinder	1 / box	8321880
	Dräger Bump Test Station for Dräger X-am® 5000, not including gas cylinder	1 / box	8319131
	Dräger Bump Test Station for Dräger X-am® 5000, complete with one test gas cylinder 58L (gases and concentration variable)	1 / box	8319130
	Nonane Checker for Dräger X-am® 5000	1 / box	8320080

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Communication accessories			
Dräger GasVision®		1 / box	8314034
Dräger CC-Vision®		1 / box	Freeware
USB DIRA with USB cable, communication adapter infrared to USB		1 / box	8317409
Cases			
Leather carrying case		1 / box	8318755
Carrying case for charging accessories, probes, external pump, hose and gas cylinder (without content)		1 / box	8320467
Area Monitoring			
Dräger X-zone® 5800, 915 MHz, 24 Ah, with Pump		1 / box	8329040

## TECHNICAL DATA

Dimensions (H x W x D)	48 x 130 x 44 mm; (1.89 x 5.12 x 1.73 in)	
Weight	220 – 250 g; (7.8 - 8.8 oz)	
Ambient conditions	Temperature	-20 to 50 C (-4 to 122 F)
	Pressure	700 – 1,300 hPa
	Humidity	10 – 95% RH
Alarms	Visual	360°
	Acoustic	Multi-tone, typically 100 dB(A) at 30 cm (12 in)
	Vibration	
Operating times (Diffusion)	>12 hours with Alkaline and NiMH;	
	> 13 hours with NiMH HC; without Ex Sensor typ.	
	> 250 hours with Alkaline Battery; when using the Save Energy Mode > 40 hours	
Charging time	< 4 hours	
Data logger	Can be read out via Infrared > 1,000 hours with 5 gases and a recording interval of 1 value per minute	
Pump operation	Maximum hose length 45 m (147 ft)	

## PORTABLE GAS DETECTION

## TECHNICAL DATA

	I M1, II 1G Ex da ia I Ma, Ex da ia IIC T4 Ga
ATEX	Performance approval to: EN 50104 (2002) + A1 (2004) O <sub>2</sub> EN 45544 CO & H <sub>2</sub> S EN 60079-29-1:2007 Methane to nonane EN 50271:2010 Software and documentation
CSA	Class I, Div. 1 Grps. A, B, C, D Class II, Div. 1 Grps. E, F, G T-Code T4/T3
Approvals IECEX	Ex ia I Ex ia IIC T3 Ex d ia I Ex d ia IIC T4/T3
CE-mark	Electromagnetic compatibility Directive 2004 / 108 / EG; EN 50270:2006
EAC	PO Ex ia I X 0 Ex ia IIC T4 / T3 X
MED	Marine Equipment Directive 96 / 98 / EC
MSHA	Permissible Gas Detector

## PORTABLE GAS DETECTION

## Dräger X-am® 5600

### Multi-Gas Detector

Featuring an ergonomic design and innovative infrared sensor technology, the Dräger X-am® 5600 is the smallest gas detection instrument for the measurement of up to 6 gases. Ideal for personal monitoring applications, this robust and water-tight detector provides accurate, reliable measurements of explosive, combustible and toxic gases and vapors as well as oxygen.

**Safe gas inlet**  
Gas entry from two sides

**Visual alarm**  
360° visible alarm

**Retroreflective label:**  
Easy to find in the dark  
or in water



**Dräger sensors**  
Fast, accurate and durable.  
A visual life signal indicates  
the continuous operation of the  
infrared sensor.

**Large display**  
All readings at a glance



## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**DRÄGER X-AM® 5600**

## Dräger X-am® 5600

Consisting of: basic instrument with an integrated data logger, support CD, manufacturer's and calibration certificates. A functional instrument must include up to 4 sensors and a power supply unit.

8322930

## Infrared-Sensors

DrägerSensor Dual IR Ex/CO <sub>2</sub> ES*	Measurement Range: 0 – 100 % LEL, 0 – 100 Vol.-% Methane, Propane, Ethylene, 0 – 5 Vol.-% CO <sub>2</sub> Resolution: 1 % LEL, 0.1 Vol.-% CH <sub>4</sub> , 0.01 Vol.-% CO <sub>2</sub>	1 / box	6851880
DrägerSensor IR Ex ES*	Measurement Range: 0 – 100 % LEL, 0 – 100 Vol.-% Methane, Propane, Ethylene Resolution: 1 % LEL, 0.1 Vol.-% CH <sub>4</sub>	1 / box	6851881
DrägerSensor IR CO <sub>2</sub> ES*	Measurement Range: 0 – 5 Vol.-% CO <sub>2</sub> Resolution: 0.01 Vol.-% CO <sub>2</sub>	1 / box	6851882

## Electrochemical Sensors

Dual Carbon Monoxide (CO) LC/Oxygen (O <sub>2</sub> ) XXS	Measurement Range: 0-2000 ppm CO 1 ppm 2 - Yr Resolution: 0-25.0%Vol O <sub>2</sub> 0.1%Vol	368	6813275
Dual Hydrogen Sulfide (H <sub>2</sub> S) LC/Oxygen (O <sub>2</sub> ) XXS	Measurement Range: 0-100 PPM H <sub>2</sub> S 0.1 ppm 2 - Yr Resolution: 0-25.0%Vol O <sub>2</sub> 0.1%Vol	368	6814137
DrägerSensor XXS O <sub>2</sub>	Measurement Range: 0–25 Vol.-% Resolution: 0.1 Vol.-%	1 / box	6810881
DrägerSensor XXS O <sub>2</sub> PR	Measurement Range: 0 – 30 Vol.-% Resolution: 0.1 Vol.-%	1 / box	6800530
DrägerSensor XXS CO	Measurement Range: 0–2,000 ppm Resolution: 2 ppm	1 / box	6810882
DrägerSensor XXS CO HC	Measurement Range: 0–10,000 ppm Resolution: 5 ppm	1 / box	6812010
DrägerSensor XXS CO/H <sub>2</sub> compensated	Measurement Range: 0–2,000 ppm CO Resolution: 2 ppm	1 / box	6811950
DrägerSensor XXS H <sub>2</sub> S	Measurement Range: 0–200 ppm Resolution: 1 ppm	1 / box	6810883
DrägerSensor XXS H <sub>2</sub> S LC	Measurement Range: 0–100 ppm Resolution: 0.1 ppm	1 / box	6811525
DrägerSensor XXS H <sub>2</sub> S HC	Measurement Range: 0–1,000 ppm Resolution: 2 ppm	1 / box	6812015
DrägerSensor XXS NO	Measurement Range: 0 – 200 ppm Resolution: 0.5 ppm	1 / box	6811545

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
DrägerSensor XXS CO/H <sub>2</sub> S	Measurement Range: 0–2,000 ppm CO/ 0–200 ppm H <sub>2</sub> S Resolution: 1 ppm H <sub>2</sub> S/2 ppm CO	1 / box	6811410
DrägerSensor XXS H <sub>2</sub> S-LC / CO-LC	Measurement Range: 0 – 2000 ppm CO / 0-100 ppm H <sub>2</sub> S; Resolution: 0.1 ppm H <sub>2</sub> S / 1 ppm	1 / box	6813280
DrägerSensor XXS NO	Measurement Range: 0–200 ppm Resolution: 0.1 ppm	1 / box	6811545
DrägerSensor XXS NO <sub>2</sub>	Measurement Range: 0 – 50 ppm Resolution: 0.1 ppm	1 / box	6810884
DrägerSensor XXS SO <sub>2</sub>	Measurement Range: 0 – 100 ppm Resolution: 0.1 ppm	1 / box	6810885
DrägerSensor XXS PH <sub>3</sub>	Measurement Range: 0 – 20 ppm Resolution: 0.01 ppm	1 / box	6810886
DrägerSensor XXS PH <sub>3</sub> HC	Measurement Range: 0 – 2,000 ppm Resolution: 1 ppm	1 / box	6812020
DrägerSensor XXS HCN	Measurement Range: 0 – 50 ppm Resolution: 0.1 ppm	1 / box	6810887
DrägerSensor XXS NH <sub>3</sub>	Measurement Range: 0 – 300 ppm Resolution: 1 ppm	1 / box	6810888
DrägerSensor XXS CO <sub>2</sub>	Measurement Range: 0 – 5 Vol.-% Resolution: 0.1 Vol.-%	1 / box	6810889
DrägerSensor XXS Cl <sub>2</sub>	Measurement Range: 0 – 20 ppm Resolution: 0.05 ppm	1 / box	6810890
DrägerSensor XXS H <sub>2</sub>	Measurement Range: 0 – 2,000 ppm Resolution: 5 ppm	1 / box	6812370
DrägerSensor XXS H <sub>2</sub> HC	Measurement Range: 0 – 4 Vol.-% Resolution: 0.01 Vol.-%	1 / box	6812025
DrägerSensor XXS OV	Measurement Range: 0 – 200 ppm Resolution: 0.5 ppm	1 / box	6811530
DrägerSensor XXS OV-A	Measurement Range: 0 – 200 ppm Resolution: 1 ppm	1 / box	6811535

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
DrägerSensor XXS Amine	Measurement Range: 0 – 100 ppm Resolution: 1 ppm	1 / box	6812545
DrägerSensor XXS Odorant	Measurement Range: 0 – 40 ppm Resolution: 0.5 ppm	1 / box	6812535
DrägerSensor XXS COCl <sub>2</sub>	Measurement Range: 0 – 10 ppm Resolution: 0.01 ppm	1 / box	6812005
* Special calibration for Ex sensors are available (standard setting: Methane)			
Power supply units			
NiMH power pack T4		1 / box	8318704
Power pack & charging set Consisting of: rechargeable NiMH power supply T4, charging module and a single charger (for worldwide use)			8318785
Alkaline power pack T3 / T4 (without alkaline batteries)		1 / box	8322237
Alkaline batteries T4 (2 pc.) for alkaline power supply 8322237		2 / box	4588195
Charging accessories			
Charging module		1 / box	8318639
Charging set basic consisting of one charging module and a single power supply (worldwide use)		1 / box	8320333
Power supply with connection cable (worldwide use) for max. 20 charging modules - Requires 8325736 adapter		1 / box	8321850
Single charger (worldwide use) for max. 5 charging modules - Requires 8325736 adapter		1 / box	8321849
Car charging connection cable 12 / 24 V for a charging module		1 / box	4530057
Vehicle charger mounting kit for a X-am® 1/2/5x00 car charging module		1 / box	8318779

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Pump accessories			
	Dräger X-am® External Pump incl. USB charger with wall plug and shoulder strap	1 / box	8327115
	CSE Set for Dräger X-am® External Pump	1 / box	8327117
	Customizable Expanded Dräger X-am® 5000/5600 CSE Kit with External Pump	1 / box	8327106
	USB 2.0 Cable	1 / box	8327108
	USB power supply	1 / box	8327102
	Shoulder strap	1 / box	8319386
	Case for Dräger X-am® External Pump	1 / box	8327104
	Filter with hose connector 3 x 5 mm (0.12 x 0.20 in)	1 / box	8319364
	Filter Set, 20 pieces per pack (no Luer adaptors)	20 / box	3705997
	Clamp, X-am Pump	1 / box	5600956
	Telescopic Probe ES150, 1.5 m (4.9 ft)	1 / box	8316533
	Telescopic Probe, 1.4 m (4.5 ft)	1 / box	4510546
	Telescopic Probe, 2 m (6.5 ft)	1 / box	4510545
	Float probe with Luer Adapter	1 / box	8327654
	5 m / 16.4 ft FKM diameter 3 mm (0.12 in) hose 5 m (16.4 ft)	1 / box	8325705
	Kit, pump inlet w/nut, X-am® 1/2/5 Spare	1 / box	4594854
Calibration accessories			
	Dräger Bump Test Station for Dräger X-am® 5000, not including gas cylinder	1 / box	8319131
Communication accessories			
	Dräger GasVision®	1 / box	8314034
	Dräger CC-Vision®	1 / box	Freeware
	USB DIRA with USB cable, communication adapter infrared to USB	1 / box	8317409
System components			
	Dräger X-zone® 5800, 915 MHz, 24 Ah, with Pump	1 / box	8329040

## PORTABLE GAS DETECTION

## TECHNICAL DATA

Dimensions (H x W x D)	47 x 130 x 44 mm (1.85 x 5.12 x 1.73 in)	
Weight	250g (8.8 oz)	
Ambient conditions	Temperature	-20 to 50 C (-4 to 122 F)
	Pressure	700 to 1,300 mbar; 20.7 to 38.4 inch Hg 10 to 95% RH
	Humidity	10 to 95% RH
Alarms	Visual	360°
	Acoustic	Multi-tone >90 dB at 30 cm (1 ft)
Operating time	~10 h or rather ~12 h	
Charging time	< 4 hours	
Data logger	Can be read out via Infrared >1,000 hours with 6 gases and a recording interval of 1 value per minute	
Pump operation	Maximum hose length 45 m (147 ft)	
Approvals	ATEX	I M1, II 1G Ex da ia I Ma, Ex da ia IIC T4 Ga
	IEC	Ex ia I Ma Ex ia IIC T4/T3 Ga for MQG 01
	MED	Marine Equipment Directive 96 / 98 / EC
	CSA	Class I, Div. 1 Grps. A, B, C, D Class II, Div. 1 Grps. E, F, G T-Code T4/T3 Class I, Zone 0, A/Ex ia IIC T4/T3 /Ga

## PORTABLE GAS DETECTION

## Dräger X-am® 3500 Multi-Gas Detector

The Dräger X-am® 3500 was especially designed for clearance measurements and personnel monitoring applications. The 1 to 4 gas detector reliably detects flammable gases and vapors as well as O<sub>2</sub>, CO, H<sub>2</sub>S, NO<sub>2</sub> and SO<sub>2</sub>. The innovative signaling design and extensive range of accessories ensure optimum safety and easy handling.

Switch easily between pump and diffusion mode

Slots for DrägerSensors® to measure up to four gases



Glowing green D-light indicates that the unit is tested and ready for use

Easy-to-read color display with zoom function

Inductive charging for reduced maintenance

D-406-2018

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**DRÄGER X-AM® 3500**

## Dräger X-am® 3500

Consists of: device with power supply (Lithium-ion battery), integrated pump, pump adapter, data logger, manufacturer's certificate, certificate of calibration. Ex = CatEx 125 PR, Calibration gas = Methane.

Instruction for use included as standard in the following languages: DE, EN, FR, ES, PT, IT, NL, RU, ZH, JA

Dräger X-am® 3500 Ex, O <sub>2</sub> (without charging equipment)*		1 / box	8328412
Dräger X-am® 3500 Ex, O <sub>2</sub> , H <sub>2</sub> S LC (without charging equipment)*		1 / box	8328414
Dräger X-am® 3500 Ex, O <sub>2</sub> , CO LC (without charging equipment)*		1 / box	8328416
Dräger X-am® 3500 Ex, O <sub>2</sub> , CO LC, H <sub>2</sub> S LC (without charging equipment)*		1 / box	8328418
Dräger X-am® 3500 Ex, O <sub>2</sub> , CO LC, H <sub>2</sub> S LC Set (with charging equipment)*		1 / box	8328419
Dräger X-am® 3500 Ex, O <sub>2</sub> , CO LC, NO <sub>2</sub> (without charging equipment)*		1 / box	8328422
Dräger X-am® 3500 Ex, O <sub>2</sub> , H <sub>2</sub> S LC, SO <sub>2</sub> (without charging equipment)*		1 / box	8328424

Technical handbook available in the following languages: DE, EN, FR, ES, RU

website  
download

## Sensors

CatEx 125 PR*	Measurement Range 0–100 % LEL Resolution 1 % LEL	1 / box	6812950
DrägerSensor® XXS O <sub>2</sub> **	Measurement Range 0–25 vol% Resolution 0.1 vol%	1 / box	6810881
DrägerSensor® XXS CO LC**	Measurement Range 0–2,000 ppm Resolution 1 ppm	1 / box	6813210
DrägerSensor® XXS H <sub>2</sub> S LC**	Measurement Range 0–100 ppm Resolution 0.1 ppm	1 / box	6811525
DrägerSensor® XXS NO <sub>2</sub>	Measurement Range 0–50 ppm Resolution 0.1 ppm	1 / box	6810884
DrägerSensor® XXS SO <sub>2</sub>	Measurement Range 0–100 ppm Resolution 0.1 ppm	1 / box	6810885

\* A three-year manufacturer's warranty applies to these sensors. Legal rights accruing from defects remain unaffected.

\*\*Dräger provides a 5 year guarantee on these sensors when installed in an Dräger X-am® 25/5x/35/8000

## Power supply unit

Energy supply (incl. back housing)	(included as standard)	1 / box	8326817
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## Charging accessories

Inductive charger for charging 1 device		1 / box	8325825
Adapter for power plug		1 / box	8325736

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Power plug for charging 1 device		1 / box	8316997
Power plug 100–240 VAC; 1.25 A, for charging up to 5 devices	(requires adapter 8325736)	1 / box	8321849
Power plug 100–240 VAC; 6.25 A, for charging up to 20 devices	(requires adapter 8325736)	1 / box	8321850
Vehicle connector cable 12/24 V for charging 1 device		1 / box	4530057
Vehicle connector cable 12/24 V DC for charging up to 5 devices	(requires adapter 8325736)	1 / box	8321855
Vehicle mount	(requires adapter for power plug 83 25 736 and vehicle connector cable 12/24 V DC 83 21 855)	1 / box	8327636
<b>Pump accessories</b>			
Dust and water filter for pump inlet		1 / box	8319364
Filter Set, 20 pieces per pack (no Luer adaptors)		20 / box	3705997
Pump adapter		1 / box	8326820
<b>Probes and Hoses</b>			
Telescopic probe 100		1 / box	8316530
Telescopic probe 150, stainless steel	Connection for filter is included in order no. 8319364 (Dust/Water Filter)	1 / box	8316533
5 m (16.4 ft) FKM hose, 3.2 mm, with adapters		1 / box	8325705
10 m (33 ft) FKM hose, 3.2 mm, with adapters		1 / box	8325706
20 m (66 ft) FKM hose, 3.2 mm, with adapters up to 5 devices		1 / box	8325707
45 m (147 ft) FKM hose, 3.2 mm, with adapters		1 / box	8328212
Float probe EPP, incl. 3 m hose, 3.2 mm		1 / box	8325831
Float probe EPP, incl. 10 m hose, 3.2 mm		1 / box	8325832
Float probe (transparent), with adapter		1 / box	8327654
Additional probes, hoses and accessories are available from Dräger. Please contact us.			
<b>Calibration accessories</b>			
Dräger X-am® 3500/8000 calibration adapter		1 / box	8326821
Dräger X-dock® Module Dräger X-am® 3500/ 8000		1 / box	8321893
Dräger X-dock® Module Dräger X-am® 3500/8000+ charging		1 / box	8321894
Dräger X-dock® 5300 (Dräger X-am® 3500/8000) with Master		1 / box	8321882
Test gases		Please contact Dräger	
Holder for USB Dira Dongle		1 / box	8325859



## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Accessories for measured value acquisition and configuration			
Dräger CC-Vision®	Freeware ( <a href="http://www.draeger.com/software">www.draeger.com/software</a> )		
Dräger GasVision® License Key			8325646
USB Dira Dongle / IR interface		1 / box	8317409
Other accessories			
Protective rubber boot, removable		1 / box	8325858
Leather case for the device		1 / box	8327664
Transport case (empty)		1 / box	8327661
Protective Display cover		3 / box	8326828
Shoulder strap (complete)	(requires connector for shoulder strap 8326819)	1 / box	8326823
Retractable lanyard	(requires connector for shoulder strap)	1 / box	8323032
Holder for labels (on strap)		1 / box	8326824
Adhesive labels for individual inscriptions, for holder on strap, silver (Blue, red, green, yellow also available)		5 / box	8327645
Pedestal for holding device upright, e.g. for area monitoring	(requires connector for shoulder strap)	1 / box	8325874
Transponder reader for reading the integrated RFID transponder (optional)		1 / box	6559283

## TECHNICAL DATA

Dimensions (H x W x D)	179 x 77 x 42 mm (7.0 x 3.0 x 1.7 in)		
Weight	Approx. 495 g (17.5 oz), depending on sensor configuration, without strap, without pump Approx. 550 g (19.4 oz), depending on sensor configuration, without strap, with pump		
Housing	Durable two-component housing		
Display	High-contrast color display		
Temperature	-4°F to 122°F -20 to 50 C (-4 to 122 F)		
Pressure	700 to 1.300 hPa		
Relative humidity	10 to 90% (short-term up to 95%) r.h.		
Alarms	Visual	3 LED 'red' (gas alarms), 3 LED 'yellow' (device alarms)	
	Acoustic	Multi-tone, typically 100 dB(A) at 30 cm (12 in)	
	Vibration		

## PORTABLE GAS DETECTION

## TECHNICAL DATA

Ingress protection class	IP 68	
Energy supply	Lithium-ion battery, rechargeable, inductive charging	
Operating times (Diffusion)	With CatEx and 3 EC sensors	Typically 24 hours
	With 3 EC-sensors	Typically 120 hours
Charging times	Typically 4 hours after use during a shift of max. 10 hours	
Start-up times	Typically <60 seconds for standard sensors	
Data storage	12 MB, e.g. at 10 minutes per hour of gas exposure with measuring values changing by the second on all 4 channels: approx. 300 hours	
Pump operation	Max. hose length 147.6 feet 45 m (147.6 ft)	
Approvals	ATEX / IECEx	I M1, II 1G
		Ex da ia I Ma, Ex da ia IIC T4 Ga
		Metrological approval pending
	cCSAus	Class II, Div. 1, Groups E, F and G
		Ex da ia IIC T4 Ga
		Class I, Zone 0, AEx da ia IIC T4 Ga
CE labelling		
MED / DNV GL (Please contact Dräger regarding availability)		
Manufacturer's warranty	3 years for the device	
	1 year for the power supply	
	Sensors: see DrägerSensor® & Portable Instruments Handbook	

## PORTABLE GAS DETECTION

## Dräger X-am® 8000 Multi-Gas Detector

Clearance measurement was never this easy and convenient: The Dräger X-am® 8000 measures up to seven gases, including toxic, flammable gases and vapors, and oxygen all at once—either in pump or diffusion mode. Innovative signaling design and handy wizard functions ensure complete safety throughout the process.

Switch easily between pump and diffusion mode

Impact detection informs you of severe mechanical stresses

Intuitive smart assistants for clearance measurement, leak detection, and benzene-specific testing with the PID (pre-tube)



Glowing green D-light indicates that the unit is tested and ready for use

Five slots for DrägerSensors® to measure up to seven gases, two new high-performance PID sensors

Easy-to-read color display with zoom function

Inductive charging for reduced maintenance

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**DRÄGER X-AM® 8000****Dräger X-am® 8000**

Consists of: device with power supply (Lithium-ion battery), data logger, shoulder strap, manufacturer's certificate, certificate of calibration, and charger (optional). A fully functioning device allows up to 5 sensors and an optional integrated pump. Instruction for use included as standard in the following languages:

DE, EN, FR, ES, PT, IT, NL, RU, ZH, JA PT, IT, NL, RU, ZH, JA

8325800

Free instruction for use on request (please indicate when ordering), also available in the following languages:

DA, FI, NO, SV, PL, HR, SL, SK, CS, BG, RO, HU, EL, TR, KO

9033656

Technical handbook available in the following languages: DE, EN, FR, ES, RU. Available to download from the product website.

Selectable device options when ordering	Integrated pump with pump adapter
	RFID transponder

The charging cradle/power plug can be deselected during the ordering process.

Slot 1: PID or IR sensor

Slot 2: IR or CatEx sensor

Slots 3-5: Electrochemical sensors (XXS format)

Sensors			
CatEx 125 PR*, **	Measurement Range: 0–100 % LEL, 0–100 vol% CH <sub>4</sub> Resolution: 1 % LEL	1 / box	6812950
Cat-Ex 125 PR Gas*	Measurement Range: 0–100 % LEL, 0–100 vol% CH <sub>4</sub> Resolution: 1 % LEL	1 / box	6813080
Dual IR Ex/CO <sub>2</sub> *	Measurement Range: 0–100 % LEL, 0–100 vol% CH <sub>4</sub> , 0–5 vol% CO <sub>2</sub> Resolution: 1 % LEL, 0.2 vol%, 0.01 vol% CO <sub>2</sub> or 50 ppm CO <sub>2</sub>	1 / box	6851880
Dual IR Ex/CO <sub>2</sub> HC*	Measurement Range: Ex 0-100 %LEL, 0-100 %Vol - CO <sub>2</sub> 0-100 %Vol; Resolution: Ex 1 %LEL - CO <sub>2</sub> 0.1 %Vol	1 / box	6800276
IR Ex*	Measurement Range: 0–100 % LEL, 0–100 vol% CH <sub>4</sub> Resolution: 1 % LEL, 0.2 vol%	1 / box	6851881
IR CO <sub>2</sub>	Measurement Range: 0–5 vol% CO <sub>2</sub> Resolution: 0.01 vol% CO <sub>2</sub> or 50 ppm CO <sub>2</sub>	1 / box	6851882
DrägerSensor® PID LC ppb (10.6 eV)	Measurement Range: 0.025–10 ppm Isobutylene Resolution: 0–2 ppm / 10 ppb, >2–5 ppm / 20 ppb, >5–10 ppm / 50 ppb	1 / box	6813500
DrägerSensor® PID HC (10.6 eV)	Measurement Range: 0–2,000 ppm Isobutylene Resolution: 0–20 ppm / 100 ppb, >20–50 ppm / 200 ppb, >50–100 ppm / 500 ppb, >100–200 ppm / 1 ppm, >200–500 ppm / 2 ppm, >500–1,000 ppm / 5 ppm, >1,000–2,000 ppm / 10 ppm	1 / box	6813475
DrägerSensor® XXS O <sub>2</sub> **	Measurement Range: 0–25 vol% Resolution: 0.1 vol%	1 / box	6810881
DrägerSensor® XXS O <sub>2</sub> 100	Measurement Range: 0–100 vol% Resolution: 0.5 vol%	1 / box	6812385
DraegerSensor® XXS O <sub>2</sub> PR	Measurement Range: 0-30% Resolution: 0.1%	1 / box	6800530

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
DrägerSensor® XXS CO LC**	Measurement Range: 0–2,000 ppm Resolution: 1 ppm	1 / box	6813210
DrägerSensor® XXS CO HC	Measurement Range: 0–10,000 ppm Resolution: 5 ppm	1 / box	6812010
DrägerSensor® XXS CO/H <sub>2</sub> compensated	Measurement Range: 0–2,000 ppm CO Resolution: 2 ppm	1 / box	6811950
DrägerSensor® XXS H <sub>2</sub> S LC**	Measurement Range: 0–100 ppm Resolution: 0.1 ppm	1 / box	6811525
DrägerSensor® XXS H <sub>2</sub> S HC	Measurement Range: 0–1,000 ppm Resolution: 2 ppm	1 / box	6812015
DrägerSensor® XXS CO LC/H <sub>2</sub> S LC	Measurement Range: 0–2,000 ppm CO/, 0–100 ppm H <sub>2</sub> S Resolution: 0–100 ppm H <sub>2</sub> S, 0.1 ppm H <sub>2</sub> S	1 / box	6813280
DrägerSensor® XXS CO LC/O <sub>2</sub>	Measurement Range: 0–2,000 ppm CO/, 0–25 vol% Resolution: 1 ppm CO, 1 vol% O <sub>2</sub>	1 / box	6813275
Dual Hydrogen Sulfide (H <sub>2</sub> S) LC/Oxygen (O <sub>2</sub> ) XXS	Measurement Range: 0–100 PPM H <sub>2</sub> S 0.1 ppm 2 - Yr Resolution: 0–25.0% Vol O <sub>2</sub> 0.1%Vol	368	6814137
DrägerSensor® XXS NO	Measurement Range: 0–200 ppm Resolution: 0.1 ppm	1 / box	6811545
DrägerSensor® XXS NO <sub>2</sub>	Measurement Range: 0–50 ppm Resolution: 0.1 ppm	1 / box	6810884
DrägerSensor® XXS NO <sub>2</sub> LC	Measurement Range: 0–50 ppm Resolution: 0.02 ppm	1 / box	6812600
DrägerSensor® XXS SO <sub>2</sub>	Measurement Range: 0–100 ppm Resolution: 0.1 ppm	1 / box	6810885
DrägerSensor® XXS PH <sub>3</sub>	Measurement Range: 0–20 ppm Resolution: 0.01 ppm	1 / box	6810886
DrägerSensor® XXS PH <sub>3</sub> HC	Measurement Range: 0–2,000 ppm Resolution: 1 ppm	1 / box	6812020
DrägerSensor® XXS HCN	Measurement Range: 0–50 ppm Resolution: 0.1 ppm	1 / box	6810887
DrägerSensor® XXS HCN PC	Measurement Range: 0–50 ppm Resolution: 0.5 ppm	1 / box	6813165
DrägerSensor® XXS NH <sub>3</sub>	Measurement Range: 0–300 ppm Resolution: 1 ppm	1 / box	6810888
DrägerSensor® XXS CO <sub>2</sub>	Measurement Range: 0–5 vol% Resolution: 0.1 vol%	1 / box	6810889
DrägerSensor® XXS Cl <sub>2</sub>	Measurement Range: 0–20 ppm Resolution: 0.05 ppm	1 / box	6810890
DrägerSensor® XXS H <sub>2</sub>	Measurement Range: 0–2,000 ppm Resolution: 5 ppm	1 / box	6812370
DrägerSensor® XXS H <sub>2</sub> HC	Measurement Range: 0–4 vol% Resolution: 0.01 vol%	1 / box	6812025

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
DrägerSensor® XXS OV	Measurement Range: 0–200 ppm Resolution: 0.5 ppm	1 / box	6811530
DrägerSensor® XXS OV-A	Measurement Range: 0–200 ppm Resolution: 1 ppm	1 / box	6811535
DrägerSensor® XXS Amine	Measurement Range: 0–100 ppm Resolution: 1 ppm	1 / box	6812545
DrägerSensor® XXS Odorant	Measurement Range: 0–40 ppm Resolution: 0.5 ppm	1 / box	6812535
DrägerSensor® XXS COCl <sub>2</sub>	Measurement Range: 0–10 ppm Resolution: 0.01 ppm	1 / box	6812005
DrägerSensor® XXS Ozone	Measurement Range: 0–10 ppm Resolution: 0.01 ppm	1 / box	6811540

\* Special calibrations possible for the Ex sensors (Standard: methane)

\*\*Dräger provides a 5 year guarantee on these sensors when installed in an Dräger X-am® 25/5x/35/8000

Power supply unit			
Energy supply (incl. back housing)	(Included as standard)		8326817
Charging accessories			
Inductive charger for charging 1 device	(Included as standard, deselectable)	1 / box	8325825
Leather case for the device	(Included as standard, deselectable)	1 / box	8325736
Power plug for charging 2 devices		1 / box	8315635
Power plug for charging 5 devices		1 / box	8316994
Power plug 100-240 VAC; 1.25 A, for charging up to 5 devices - Requires 8325736 adapter	(Included as standard, deselectable)	1 / box	8321849
Power plug 100-240 VAC; 6.25 A, for charging up to 20 devices - Requires 8325736 adapter		1 / box	8321850
Vehicle connector cable 12/24 V for charging 1 device		1 / box	4530057
Vehicle connector cable 12/24 V DC for charging up to 5 devices - Requires 8325736 adapter		1 / box	8321855
Vehicle mount		1 / box	8327636
Test gases.			Please contact Dräger.

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Accessories for measured value acquisition and configuration			
Dräger CC-Vision®	Freeware (www.draeger.com/software)		
Dräger GasVision® License Key			8325646
USB Dira Dongle / IR interface		1 / box	8317409
Holder for USB Dira Dongle		1 / box	8325859
Other accessories			
Protective rubber boot, removable		1 / box	8325858
Leather case for the device		1 / box	8327664
Transport case (empty)		1 / box	8327661
Protective Display cover		3 / box	8326828
Shoulder strap (complete)	(included as standard)	1 / box	8326823
Retractable lanyard		1 / box	8323032
Holder for labels (on strap)	(included as standard)	1 / box	8326824
Adhesive labels for individual inscriptions, for holder on strap, Silver, Red, Green, Blue, Yellow labels also available	(included as standard)	5 / box	8327645
Pedestal for holding device upright, e.g. for area monitoring		1 / box	8325874
Transponder reader for reading the integrated RFID transponder (optional)		1 / box	6559283
Accessories for Photoionization Detector (PID)			
Pre-tube holder		1 / box	6813 769
Pre-tube benzene (package, 10 units)		10 / box	8103 511
Pre-tube humidity (package, 10 units)		10 / box	8103 531
Pre-tube activated carbon (package, 10 units)		10 / box	CH24101
Tube opener TO 7000		1 / box	6401200
Leather case set for photoionization detector, incl. Leather case for the device		1 / box	8327639
PID lamp cleaning set		1 / box	8319111
Probes and Hoses			
Telescopic probe 100	Connection for filter is included in P/N 8319364 (Dust/Water Filter)	1 / box	8316530
Telescopic probe 150, stainless steel	Connection for filter is included in P/N 8319364 (Dust/Water Filter)	1 / box	8316533

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
	5 m (16.4 ft) FKM hose, 3.2 mm, with adapters	1 / box	8325705
	10 m (33 ft) FKM hose, 3.2 mm, with adapters	1 / box	8325706
	20 m (66 ft) FKM hose, 3.2 mm, with adapters	1 / box	8325707
	Float probe EPP, incl. 3 m (10 ft) hose, 3.2 mm	1 / box	8325831
	Float probe EPP, incl. 10 m (33 ft) hose, 3.2 mm	1 / box	8325832
	Float probe (transparent), with adapter	1 / box	8327654

Additional probes, hoses and accessories are available from Dräger. Please contact us.

## TECHNICAL DATA

Dimensions (H x W x D)	179 x 77 x 42 mm (7.0 x 3.0 x 1.7 in)	
Weight	Approx. 495 g (17.5 oz), depending on sensor configuration, without strap, without pump Approx. 550 g (19.4 oz), depending on sensor configuration, without strap, with pump	
Housing	Durable two-component housing	
Display	High-contrast color display	
Temperature	-20 to 50 C (-4 to 122 F)	
Pressure	700 to 1.300 hPa	
Relative humidity	10 to 90% (short-term up to 95%) r.h.	
Alarms	Visual	3 LED 'red' (gas alarms), 3 LED 'yellow' (device alarms)
	Acoustic	Multi-tone, typically 100 dB(A) at 30 cm (12 in)
	Vibration	
Ingress protection class	IP 68	
Energy supply	Lithium-ion battery, rechargeable, inductive charging	
Operating times (Diffusion)	With CatEx and 3 EC sensors	Typically 24 hours
	With IR and 3 EC sensors	Typically 22 hours
	With 3 EC-sensors	Typically 120 hours
	With CatEx, PID and 3 EC sensors	Typically 17 hours
	With IR, PID and 3 EC sensors	Typically 16 hours
	PID only	Typically 42 hours
Charging times	Typically 4 hours after use during a shift of max. 10 hours	



## PORTABLE GAS DETECTION

### TECHNICAL DATA

Start-up times	Typically <60 seconds for standard sensors
Data storage	12 MB, e.g. at 10 minutes per hour of gas exposure with measuring values changing by the second on all 7 channels: approx. 210 hours
Pump operation	Max. hose length 45 m (147.6 ft)
Approvals	ATEX / IECEx
	I M1, II 1G Ex da ia I Ma, Ex da ia IIC T4 Ga Metrological approval pending
	cCSAus
	Class I, Zone 0, AEx da ia IIC T4 Ga Class II, Div 1, Gr. E, F, G T4 C22.2 No. 152, ANSI-ISA 12.13.01:2000
CE labelling	MED / DNV GL (Please contact Dräger regarding availability)
Manufacturer's warranty	3 years for the device
	1 year for the power supply
	Sensors: see DrägerSensor® & Portable Instruments Handbook

## PORTABLE GAS DETECTION

## Dräger X-pid® 9500 Multi-Gas Detector

The selective PID gas measurement device is ideal for users who frequently test for hazardous toxic substances. Benzene, butadiene and other volatile organic compounds (VOCs) are carcinogenic even in the smallest concentrations. Selective measurement is necessary because other gases and vapors are often also present. The Dräger X-pid® 9500 allows for short test times and laboratory-quality results.

**Sensor unit**  
compiles measurement values and sends them via Bluetooth to the control unit

**Integrated photoionization detector (PID)**  
for measuring down to the low ppb range

**Control unit**  
with large touch screen and connectivity via Wi-Fi and 4G/LTE



**Integrated gas chromatography (GC)**  
to separate compounds in gas-vapor-mixtures

**Integrated pump**  
for attaching a hose of up to (33 ft) length

**Mobile app**  
allows intuitive handling and control

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER X-PID® 9500</b>			
Dräger X-pid® 9500			
Dräger X-pid® 9500 with sensor unit, control unit with pre-installed mobile app, test gas adapter, power supplies and charging cables			6851848
Test and calibration gas, 58 liters	Isobutylene 10 ppm, Toluene 10 ppm	1 / box	3701900
Benzene test gas, 103 liters	Benzene 5 ppm	1 / box	3700266
Control valve basic 0.5 LPM	Fits to 58 l Test gas cylinder	1 / box	4557020
Dräger X-pid® 9500 test gas adapter		1 / box	6851850
Case for Dräger X-pid® 9500		1 / box	6851851
Sampling hose Tygon with inlined PTFE hose	Length 3 m (10 ft); OD: 8 mm; ID: 4.8 mm; WD: 1.6 mm	1 / box	4594679
Sampling hose FKM (solvent resistant)	OD: 6.4 mm; ID: 3.2 mm; WD: 1.6 mm	1 / box	8325837
Dust and water filter with hose adapter		1 / box	8319364
Filter Set, 20 pieces per pack (no Luer adaptors)		20 / box	3705997
Telescopic probe ES 150	Length up to 150 cm (5 ft) with FKM sampling hose extension	1 / box	8316533
Bar probe 90	Length: 90 cm (3 ft) with FKM sampling hose extension	1 / box	8316532
Float probe without hose		1 / box	6802337

## TECHNICAL DATA

Dimensions (W × H × D)	Approx. 132 x 281 x 56 mm (5.2 x 11.1 x 2.2 in)		
Weight	Approx. 880 g (2 lb)		
Ambient conditions	Temperature	-10 to 35 C (14 to 95 F)	
	Pressure	700 to 1,300 mbar	
	Relative humidity	10% to 95% RH	
Protection class	IP54		
Start-up phase	Approx. 10 min can be increased at low ambient temperatures/ configuration of the life signal		
Operating time	Typically 6 h, reduces with lower ambient temperatures		

## PORTABLE GAS DETECTION

## TECHNICAL DATA

	Ex-Zone	Sensor Unit: 0 Control Unit (ecom Smart-Ex 01): 1
	ATEX	Sensor Unit: II 1G Ex ia IIC T4 Ga IP54 Control Unit (ecom Smart-Ex 01): II 2G Ex ib IIC T4 Gb IP64
Approvals	IECEX	Sensor Unit: Ex ia IIC T4 Ga IP54 Control Unit (ecom Smart-Ex 01): Ex ib IIC T4 Gb IP64
	cCSAus	Sensor Unit: Class I, Div 1 Groups A-D T4 Control Unit (ecom Smart-Ex 02): Class I, Div 1 Groups A-G T4

A Versatile Detector for more than 40 compounds

The Dräger X-pid® 9500 offers the possibility of combining more than 40 target compounds into individual analysis programs thus expanding its application range.

List of Dräger X-pid® 9500 target compounds

Target compound	Chemical Formula	CAS number
Acetone	C3H6O	67-64-1
Acrolein	C3H4O	107-02-8
Benzene	C6H6	71-43-2
Butadiene, 1,3-	C4H6	106-99-0
Butyl acetate	C6H12O2	123-86-4
Butyraldehyde	C4H8O	123-72-8
Carbon disulfide	CS2	75-15-0
Cyclohexane	C6H12	110-82-7
Dichloroethene, 1,1-	C2H2Cl2	75-35-4
Dichloroethene, cis-1,2-	C2H2Cl2	156-59-2
Dichloroethene, trans-1,2-	C2H2Cl2	156-60-5
Diethyl carbonate	C5H10O3	105-58-8
Dimethyl carbonate	C3H6O3	616-38-6
Ethanol	C2H6O	64-17-5
Ethyl methyl carbonate	C4H8O3	623-53-0
Ethylbenzene	C8H10	100-41-4
Ethylene oxide	C2H4O	75-21-8
Heptane	C7H16	142-82-5

## PORTABLE GAS DETECTION

## TECHNICAL DATA

List of Dräger X-pid® 9500 target compounds

Target compound	Chemical Formula	CAS number
Hexane, n-	C <sub>6</sub> H <sub>14</sub>	110-54-3
Hydrogen sulfide	H <sub>2</sub> S	7783-06-4
Isobutylene	C <sub>4</sub> H <sub>8</sub>	115-11-7
Isopropanol	C <sub>3</sub> H <sub>8</sub> O	67-63-0
Methyl acrylate	C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	96-33-3
Methyl bromide	CH <sub>3</sub> Br	74-83-9
Methyl methacrylate	C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>	80-62-6
Methylbutyaldehyde ,2-	C <sub>5</sub> H <sub>10</sub> O	96-17-3
Phosphine	PH <sub>3</sub>	7803-51-2
Propanol , 1-	C <sub>3</sub> H <sub>8</sub> O	71-23-8
Propylene oxide	C <sub>3</sub> H <sub>6</sub> O	75-56-9
Styrene	C <sub>8</sub> H <sub>8</sub>	100-42-5
Tetrachloroethylene	C <sub>2</sub> Cl <sub>4</sub>	127-18-4
Tetrahydrofuran	C <sub>4</sub> H <sub>8</sub> O	109-99-9
Toluene	C <sub>7</sub> H <sub>8</sub>	108-88-3
Trichloroethylene	C <sub>2</sub> HCl <sub>3</sub>	79-01-6
Vinyl acetate	C <sub>4</sub> H <sub>6</sub> O <sub>2</sub>	108-05-4
Vinyl chloride	C <sub>2</sub> H <sub>3</sub> Cl	75-01-4
Xylene, m-	C <sub>8</sub> H <sub>10</sub>	108-38-3
Xylene, o-	C <sub>8</sub> H <sub>10</sub>	95-47-6
Xylene, p-	C <sub>8</sub> H <sub>10</sub>	106-42-3
Butanone, 2-	C <sub>4</sub> H <sub>8</sub> O	78-93-3
Butyl acrylate	C <sub>7</sub> H <sub>12</sub> O <sub>2</sub>	141-32-2
Chlorobenzene	C <sub>6</sub> H <sub>5</sub> Cl	108-90-7
Epichlorohydrin	C <sub>3</sub> H <sub>5</sub> ClO	106-89-8
Ethyl acetate	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>	141-78-6

## PORTABLE GAS DETECTION

## Dräger X-zone® 5800

### Area Monitoring

Dräger's X-zone® 5800 brings a safer, more effective way to monitor hazardous gases--re-inventing area monitoring. In combination with the Dräger X-am® 5000, 5100, or 5600 gas detection instruments, the X-zone® 5800 can be used for the measurement of up to six gases and extends the range of your portable gas detection technology exponentially.



## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER X-ZONE® 5800</b>			
Dräger X-zone® 5800			
	Dräger X-zone® 5800 with integrated pump, 915 MHz, 24 Ah battery with diffusion and pump cap	1 / box	8329040
	X-zone® 5800 bump test adapter	1 / box	8323314
	Alarm damper	1 / box	8320110
	Leg extender stand, 25 cm (10 in) high	1 / box	8320645
	Set: cap for Dräger X-am® 5100; for X-zone® with pump	1 / box	8323938
	Electrolube, contact protectant, 2 ml	1 / box	8324826
	Set pin block	1 / box	8325323
Charging accessories			
	Inductive charger	1 / box	8322080
	Plug-in charger	1 / box	8320749
	Ex Power Supply	1 / box	8329010
	Ex Power Supply power cord	1 / box	8329049
Pump accessories			
	Float probe with 5 m (16.4 ft) FKM hose	1 / box	8318371
	Hose set (consisting of water trap, dust and water filter)	1 / box	8321527
	FKM black hose, solvent-resistant (per foot)	1 / box	1203150
	Float probe	1 / box	6802337
	Sampling hose, clear Tygon* (per foot)	1 / box	4594707
	Tubing connector, X-am® 1/2/5000 pump	1 / box	4594588
	Filter replacement, X-am® 1/2/5000 pump	1 / box	8319364
	Filter Set, 20 pieces per pack (no Luer adaptors)	20 / box	3705997
Communication accessories			
Dräger CC-Vision®	<a href="http://www.draeger.com">www.draeger.com</a>		
	USB DIRA with USB cable	1 / box	8317409

## PORTABLE GAS DETECTION

## TECHNICAL DATA

Dimensions (W × H × D)	490 × 300 × 300 mm (20 x 12 x 12 in)	
Weight	10 kg (22 lbs.) (24 Ah battery)	
Ambient conditions	-20 – +50 °C (-4 – 122°F) Pressure 700 to 1,300 hPa Humidity 10 to 95 % r.h.	
Ingress Protection	IP67	
Alarm	Visual	360° LED (illuminated ring)
	Acoustic	360°; > 108 dB in a distance of 1 m (39 in.), 120 dB in a distance of 30 cm (1 ft.)
	Configurable alarm patterns, frequencies and volumes	
Life signal	Green status display (360°), illuminated ring (LED)	
Operating time	Approx. 120 h (24 Ah battery) Depending on sensor equipment / configuration of the life signal Indefinite operating time with EX power supply	
Charging time	Approx. 14 h Flexible power supply: External 100 – 240 V charger (worldwide) or inductive wireless charger	
Pump operation	Maximum hose length: 45 m (150 ft.)	
Alarm output	Potential-free alarm contact for intrinsically safe circuits (6-pole); < 20 V to 0.25 A (0.15 A constant current); Resisting load	
Radio transmission	Worldwide license-free ISM frequencies Digital radio, robust and interference-free transmission up to 100 m (328 ft.)	
RF approvals	915 MHz (USA, Canada)	
Approvals	ATEX	I M1 Ex ia I Ma II 1G Ex ia IIC T3 Ga II 2G Ex ia d IIC T4 Gb
	IECEX	Ex ia IIC T3 Ga Ex ia d IIC T4 Gb Ex ia I Ma
	CSA/US	Class I, zone 0, AEx ia IIC T3 Ga Class I, zone 1, AEx ia d IIC T4 Gb

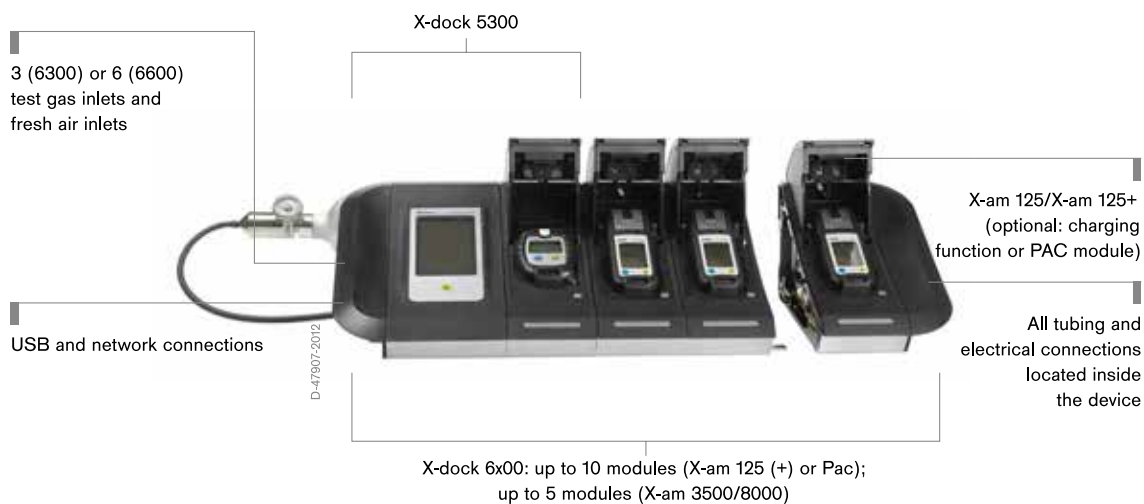


## PORTABLE GAS DETECTION

## Dräger X-dock<sup>®</sup> 5300/6300/6600

### Calibration and Bump Testing

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.



## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER X-DOCK® 5300/6300/6600</b>			
Dräger X-dock® 5300 X-am® 125	Set consisting of one master (3 gases) with power supply and one instrument module for the instruments Dräger X-am® 125	1 / box	8321880
	Limit to 1 module *Order Needed Regulator(s) Separately		
Dräger X-dock® 5300 PAC	Set consisting of one master (3 gases) with power supply and one instrument module for the Dräger Pac® Series (Pac® 3500/5500/6000/6500/7000/8000/8500).	1 / box	8321881
	Limit to 1 module *Order Needed Regulator(s) Separately		
Dräger X-dock® 5300 X-am® 8000	Set consisting of one master (up to 3 gases) with power supply and one instrument module for the Dräger X-am® 3500/8000	1 / box	8321882
	Limit to 1 module *Order Needed Regulator(s) Separately		
Dräger X-dock® 6300 Master	With 3 test gas connections plus fresh air. At least 1 module must be ordered, extendable to max. 10 modules	1 / box	8321900
	*Order Needed Regulator(s) and Power Supply Separately		
Dräger X-dock® 6600 Master	With 6 test gas connections plus fresh air. At least 1 module must be ordered, extendable to max. 10 modules	1 / box	8321901
	*Order Needed Regulator(s) and Power Supply Separately		
Dräger X-dock® Module X-am® 125	Cradle module for one instrument of the Dräger X-am® 125 series (replacement for 8324260)	1 / box	8321890
Dräger X-dock® Module X-am® 125+	Cradle module for one instrument of the Dräger X-am® 125 series With an additional charging function (replacement for 8324261)	1 / box	8321891
Dräger X-dock® Module PAC	Cradle module for one instrument of the Dräger Pac® series (replacement for 8324262)	1 / box	8321892
Dräger X-dock® Module X-am® 3500/8000	Cradle module for one instrument of the Dräger X-am® 3500/8000	1 / box	8321893
Dräger X-dock® Module X-am® 3500/8000+	Cradle module for one instrument of the Dräger X-am® 3500/8000 With an additional charging function	1 / box	8321894

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Software licenses			
XDM Single License			8328605
XDM Network License (1 year)			8328606
XDM Network License Subscription (Min. 2 years)			8328607
Station accessories			
Pressure Regulator Dräger X-dock®		1 / box	8324250
X-dock® Regulator w/flow stop		1 / box	8324251
X-dock® Stainless Steel Pressure Regulator		1 / box	8324252
Spare Parts			
Replacement Sealing Cartridge, X-am® Module		1 / box	8321986
Replacement Sealing Cartridge, Pac® Module		1 / box	8321987
Replacement Sealing Cartridge, X-am 3500/8000 Module		1 / box	8326543
Sampling Hoses			
Sampling hose, FKM Tubing, 1.5 m (5 ft) (not for Cl <sub>2</sub> )		1 / box	4594112
Sampling hose, FKM Tubing, 6 m (20 ft) (not for Cl <sub>2</sub> )		1 / box	4594114
Sampling hose, FKM Tubing, 30 m (100 ft) (not for Cl <sub>2</sub> )		1 / box	4594116
X-dock® PTFE Hose Connector Set		1 / box	8324098
Sampling hose, Tygon Tubing, PTFE lined, 1.5 m (5 ft) (reactive gas)		1 / box	4594118
Sampling hose, Tygon Tubing, PTFE lined, 6 m (20 ft) (reactive gas)		1 / box	4594120
Sampling hose, Tygon Tubing, PTFE lined, 30 m (100 ft) (reactive gas)		1 / box	4594122
Sampling hose, Tygon, 3 m (10 ft)		1 / box	4594501
Sampling hose, Tygon, 7.6 m (25 ft)		1 / box	4594503
Sampling hose, Tygon, 15 m (50 ft)		1 / box	4594505
Sampling hose, Tygon, 30 m (100 ft)		1 / box	4594507
Sampling hose, Tygon, 76 m (250 ft)		1 / box	4594509
Spare display protective foil		1 / box	8321804
Sticker for module numbering 1 to 10		1 / box	8321839
Module connection back side		1 / box	8321841
Spare Set Hoses (X-dock®)		1 / box	8321967
SD Card for X-dock®		1 / box	8321824

\*Spare Parts Discount Applies.

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>Power Supplies</b>			
	Power supply 100-240 V, 24 VDC / 1.25 A for up to 3 modules	1 / box	8321849
	Power supply 100-240 V, 24 VDC / 6.25 A for up to 10 modules	1 / box	8321850
	Car charging connection 12 V / 24 VDC	1 / box	8321855
<b>Mounting Accessories</b>			
	Wall bracket comfort (adjustable tipping angle)	1 / box	8321910
	Wall bracket basic	1 / box	8321922
	Cylinder holder (table version)	1 / box	8321918
	Cylinder holder (for DIN rail / wall bracket)	1 / box	8321928

## TECHNICAL DATA

<b>Dräger X-dock® 5300/6300/6600</b>	
Weight	X-dock® Master Controller: Approx. 1.5 kg (3.3 lb) X-dock® Module Pac®: Approx. .89 kg (1.98 lb) X-dock® Module X-am® 125: Approx. .91 kg (2 lb) X-dock® Module X-am® 125+r: Approx. .96 kg (2.11 lb) X-dock® Module X-am® 8000: Approx. 1.22 kg (2.7 lb) X-dock® Module X-am® 8000+: Approx. 1.45 kg (3.19 lb)
X-dock® Master Controller dimensions	Approx. 119 x 130 x 250 (4.7 x 5.11 x 9.84 in)
Pac®/X-am® 125 module dimensions	Approx. 90 x 145 x 250 mm (3.54 x 5.71 x 9.84 in)
X-am® 3500/8000 module dimensions	Approx. 122 x 145 x 250 mm (4.80 x 5.71 x 9.84 in)
Protection class IP20	Yes
Power pack/power supply	Via 24 V (8321849 & 8321850) power pack or car adapter
Approvals	CE marking
Ambient conditions	0 °C to 40 °C (32 to 104 F)
<b>Gas connections</b>	
Dräger X-dock® 5300/6300	3 test gas inlets for connecting 3 different test gases + one fresh air inlet + one waste gas outlet
Dräger X-dock® 6600	6 test gas inlets for connecting 6 different test gases + one fresh air inlet + one waste gas outlet
<b>Connections</b>	
USB 2.0	3 USB 2.0 devices/1 USB host
Network connection	Yes: Ethernet
Internal Memory Size	8GB

## PORTABLE GAS DETECTION

## Dräger Pac® 6000 Single-Gas Detector

The Dräger Pac® 6000 disposable personal gas detector measures CO, H<sub>2</sub>S, SO<sub>2</sub> or O<sub>2</sub> reliably and precisely, even in the toughest conditions. The robust design, quick sensor response times, and a powerful battery ensure maximum safety for up to two years with virtually no maintenance required.

Easy fastening with tightly closing crocodile clip

Illuminating D-Light shows detector is tested and ready

Robust housing with handy design for tough conditions

Clear colour coding prevents mistakes



Easily replaceable filter membrane protects the sensor

Large display shows all important information

360° alarm signal can be easily seen from all sides

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER PAC® 6000</b>			
Dräger Pac® 6000			
Dräger Pac® 6000 CO	Measurement Range: 0 – 2,000 ppm Alarm thresholds A1/A2: 35 / 50 ppm	1 / box	8326369
Dräger Pac® 6000 H <sub>2</sub> S	Measurement Range: 0 – 100 ppm Alarm thresholds A1/A2: 10 / 15 ppm	1 / box	8326368
Dräger Pac® 6000 O <sub>2</sub>	Measurement Range: 0 – 25 Vol.-% Alarm thresholds A1/A2: 19.5 / 23.5 Vol.-%	1 / box	8327612
Dräger Pac® 6000 SO <sub>2</sub>	Measurement Range: 0 – 100 ppm Alarm thresholds A1/A2: 0.5 / 1 ppm	1 / box	8328273
Dräger Pac® 6000 CO (Canada)	Measurement Range: 0 – 2,000 ppm Alarm thresholds A1/A2: 25 / 50 ppm	1 / box	8327611
Dräger Pac® 6000	Measurement Range: As per customer request Alarm thresholds A1/A2: As per customer request	1 / box	8326340
Calibration accessories			
Calibration adapter		1 / box	8318588
Dräger X-dock® 5300 Pac		1 / box	8321881
Dräger Bump Test Station for Dräger Pac®, without gas cylinder		1 / box	8317410
Communication accessories			
Dräger CC-Vision® Basic, available free of charge at <a href="http://www.draeger.com">www.draeger.com</a>			
Communication module, including USB cable		1 / box	8318587
Spare parts			
Battery		1 / box	8326856
Sensor grid (black)		1 / box	8326853
Crocodile clip set		1 / box	8319186

## PORTABLE GAS DETECTION

### TECHNICAL DATA

Dimensions (without clip) (W x H x D)	2.5 x 3.3 x 0.8 in, 64 x 84 x 20 mm
Weight	Approx. 3.7 ounces, 106 g (4.0 ounces, 113 g with clip)
Device service life	2 years from first activation
Battery service life	2 years (O <sub>2</sub> min. 12 months)
Degree of protection	IP68
Air pressure	700 to 1,300 hPa
Air humidity	10 to 90% relative humidity, non-condensing
Temperature	-22 °F to 131 °F, -30 °C to +55 °C (briefly down to -40 °F/ -40 °C for 1 hr, depending on sensor)
Approvals	cCSAus, IECEx, ATEX, CE

## PORTABLE GAS DETECTION

## Dräger Pac® 6500

### Single-Senor Detector

The robust Dräger Pac® 6500 is your reliable companion under tough conditions. The personal single-gas detection device measures CO, H<sub>2</sub>S, SO<sub>2</sub> or O<sub>2</sub> quickly and precisely. Quick sensor response times and a replaceable battery also ensure safety.

 **Bluetooth™**  
Option Available

Easy fastening with tightly closing crocodile clip

Illuminating D-Light shows detector is tested and ready

Robust housing with handy design for tough conditions

Clear color coding prevents mistakes

D-4987-2017



Easily replaceable filter membrane protects the sensor

Large display shows important information

360° alarm signal can be easily seen from all sides



## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER PAC® 6500</b>			
Dräger Pac® 6500			
Dräger Pac® 6500 CO	Measurement Range: 0 – 2,000 ppm Alarm thresholds A1/A2: 35 / 50 ppm	1 / box	8327614
Dräger Pac® 6500 H <sub>2</sub> S	Measurement Range: 0 – 100 ppm Alarm thresholds A1/A2: 10 / 15 ppm	1 / box	8327613
Dräger Pac® 6500 O <sub>2</sub>	Measurement Range: 0 – 25 Vol.-% Alarm thresholds A1/A2: 19.5 / 23.5 Vol.-%	1 / box	8327616
Dräger Pac® 6500 SO <sub>2</sub>	Measurement Range: 0 – 100 ppm Alarm thresholds A1/A2: 0.5 / 1 ppm	1 / box	8328274
Dräger Pac® 6500 CO (Canada)	Measurement Range: 0 – 2,000 ppm Alarm thresholds A1/A2: 25 / 50 ppm	1 / box	8327615
Dräger Pac® 6500	Measurement Range: As per customer request Alarm thresholds A1/A2: As per customer request	1 / box	8326341
Calibration accessories			
Calibration adapter		1 / box	8318588
Dräger X-dock® 5300 Pac		1 / box	8321881
Dräger Bump Test Station for Dräger Pac®, without gas cylinder		1 / box	8317410
Communication accessories			
Dräger CC-Vision® Basic, available free of charge at <a href="http://www.draeger.com">www.draeger.com</a>			
Communication module, including USB cable		1 / box	8318587
Spare parts			
Battery		1 / box	8326856
Sensor grid (black)		1 / box	8326853
Crocodile clip set		1 / box	8319186

## PORTABLE GAS DETECTION

### TECHNICAL DATA

Dimensions (without clip) (W x H x D)	2.5 x 3.3 x 0.8 in, 64 x 84 x 20 mm
Weight	Approx. 3.7 ounces, 106 g (4.0 ounces, 113 g with clip)
Battery service life	Min. 2 years (O <sub>2</sub> sensors min. 12 months)
Degree of protection	IP68
Air pressure	700 to 1,300 hPa
Air humidity	10 to 90% relative humidity, non-condensing
Temperature	-22 °F to 131 °F, -30 °C to +55 °C (briefly down to -40 °F / -40 °C for 1 hr, depending on sensor)
Approvals	cCSAus, IECEx, ATEX, CE

## PORTABLE GAS DETECTION

## Dräger Pac<sup>®</sup> 8000 Single-Gas Detector

With the robust Dräger Pac<sup>®</sup> 8000, you'll be well equipped for tough conditions: this non-disposable, personal single-gas detection device is a reliable and precise instrument, which detects hazardous concentrations of twenty nine different gases, including special gases like NO<sub>2</sub>, O<sub>3</sub> or COCl<sub>2</sub>.

 **Bluetooth™**  
Option Available

Easy fastening with tightly closing crocodile clip

Illuminating D-Light shows detector is tested and ready

Robust housing with handy design for tough conditions

Clear color coding prevents mistakes

D-4989-2017



Easily replaceable filter membrane protects the sensor

Large display shows important information

360° alarm signal can be easily seen from all sides

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER PAC® 8000</b>			
Dräger Pac® 8000			
Dräger Pac® 8000 NO	Measurement Range: 0 – 50 ppm Alarm thresholds A1/A2: 25 / 50 ppm	1 / box	8326350
Dräger Pac® 8000 CO <sub>2</sub>	Measurement Range: 0 – 5 Vol.% Alarm thresholds A1/A2: 0.5 / 1 Vol.%	1 / box	8326351
Dräger Pac® 8000 Cl <sub>2</sub>	Measurement Range: 0 – 20 ppm Alarm thresholds A1/A2: 0.5 / 1 ppm	1 / box	8326352
Dräger Pac® 8000 HCN	Measurement Range: 0 – 50 ppm Alarm thresholds A1/A2: 2.5 / 4.5 ppm	1 / box	8328276
Dräger Pac® 8000 NH <sub>3</sub>	Measurement Range: 0 – 300 ppm Alarm thresholds A1/A2: 25 / 50 ppm	1 / box	8328277
Dräger Pac® 8000 PH <sub>3</sub>	Measurement Range: 0 – 20 ppm Alarm thresholds A1/A2: 0.1 / 0.2 ppm	1 / box	8326355
Dräger Pac® 8000 OV	Measurement Range: 0 – 200 ppm Alarm thresholds A1/A2: 10 / 20 ppm	1 / box	8326356
Dräger Pac® 8000 OV-A	Measurement Range: 0 – 200 ppm Alarm thresholds A1/A2: 10 / 20 ppm	1 / box	8326357
Dräger Pac® 8000 NO <sub>2</sub>	Measurement Range: 0 – 50 ppm Alarm thresholds A1/A2: 2.5 / 5 ppm	1 / box	8328275
Dräger Pac® 8000 Ozone	Measurement Range: 0 – 10 ppm Alarm thresholds A1/A2: 0.1 / 0.2 ppm	1 / box	8326359
Dräger Pac® 8000 Phosgene	Measurement Range: 0 – 10 ppm Alarm thresholds A1/A2: 0.1 / 0.2 ppm	1 / box	8326360
Dräger Pac® 8000	Measurement Range: As per customer request Alarm thresholds A1/A2: As per customer request	1 / box	8326342
Calibration accessories			
Calibration adapter		1 / box	8318588
Dräger X-dock® 5300 Pac		1 / box	8321881
Dräger Bump Test Station for Dräger Pac®, without gas cylinder		1 / box	8317410

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Communication accessories			
Dräger CC-Vision® Basic, available free of charge at <a href="http://www.draeger.com">www.draeger.com</a>			
	Communication module, including USB cable	1 / box	8318587
Spare parts			
	Battery	1 / box	8326856
	Sensor grid (black)	1 / box	8326853
	Crocodile clip set	1 / box	8319186

## TECHNICAL DATA

Dimensions (without clip) (W x H x D)	2.5 x 3.3 x 0.8 in, 64 x 84 x 20 mm
Weight	Approx. 3.7 ounces, 106 g (4.0 ounces, 113 g with clip)
Battery service life	Min. 2 years
Degree of protection	IP68
Air pressure	700 to 1,300 hPa
Air humidity	10 to 90% relative humidity, non-condensing
Temperature	-22 °F to 131 °F, -30 °C to +55 °C (briefly down to -40 °F/ -40 °C for 1 hr, depending on sensor)
Approvals	cCSAus, IECEx, ATEX, CE

## PORTABLE GAS DETECTION

## Dräger Pac® 8500

### Single-Sensor Detector

The Dräger Pac® 8500 single-sensor detection device is a reliable and precise instrument even under the toughest of conditions. The detector can be equipped with a hydrogen-compensated CO sensor or a Dräger dual sensor. The dual sensors provide the option of measuring two gases at once: H<sub>2</sub>S with CO, O<sub>2</sub> with CO, or H<sub>2</sub>S with O<sub>2</sub>.

 **Bluetooth™**  
Option Available

Easy fastening with tightly closing crocodile clip

Illuminating D-Light shows detector is tested and ready for use

Robust housing with handy design for tough conditions

Clear color coding prevents mistakes

Easily replaceable filter membrane protects the sensor

Large display shows all important information

360° alarm signal can be easily seen from all sides

D-4996-2017



## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER PAC® 8500</b>			
Dräger Pac® 8500			
Dräger Pac® 8500 H <sub>2</sub> S/CO	Measurement Range: 0 – 100 ppm H <sub>2</sub> S, 0 – 2,000 ppm CO Alarm thresholds A1/A2: 10 / 15 ppm H <sub>2</sub> S, 35 / 50 ppm CO	1 / box	8328263
Dräger Pac® 8500 O <sub>2</sub> /CO	Measurement Range: 0 – 25 Vol.-% O <sub>2</sub> , 0 – 2,000 ppm CO Alarm thresholds A1/A2: 19.5 / 23.5 Vol.-% O <sub>2</sub> , 35 / 50 ppm CO	1 / box	8328265
Dräger Pac® 8500 CO-H <sub>2</sub> CP	Measurement Range: 0 – 2,000 ppm Alarm thresholds A1/A2: 35 / 50 ppm	1 / box	8327617
Dräger Pac® 8500 H <sub>2</sub> S/O <sub>2</sub>	Measurement Range: 0-100 ppm H <sub>2</sub> S, 0-25 % O <sub>2</sub> Alarm thresholds A1/A2: 5/10 ppm H <sub>2</sub> S, 19;19.5 / 22.5;23.0 Vol % O <sub>2</sub>	1 / box	3702251
Dräger Pac® 8500 CO-H <sub>2</sub> CP (Canada)	Measurement Range: 0 – 2,000 ppm Alarm thresholds A1/A2: 25 / 50 ppm	1 / box	8328262
Dräger Pac® 8500	Measurement Range: As per customer request Alarm thresholds A1/A2: As per customer request	1 / box	8326343
Calibration accessories			
Calibration adapter		1 / box	8318588
Dräger X-dock® 5300 Pac		1 / box	8321881
Dräger Bump Test Station for Dräger Pac®, without gas cylinder		1 / box	8317410
Communication accessories			
Dräger CC-Vision® Basic, available free of charge at <a href="http://www.draeger.com">www.draeger.com</a>			
Communication module, including USB cable		1 / box	8318587
Spare parts			
Battery		1 / box	8326856
Sensor grid (black)		1 / box	8326853
Crocodile clip set		1 / box	8319186

## PORTABLE GAS DETECTION

### TECHNICAL DATA

Dimensions (without clip) (W x H x D)	2.5 x 3.3 x 0.8 in, 64 x 84 x 20 mm
Weight	Approx. 3.7 ounces, 106 g (4.0 ounces, 113 g with clip)
Battery service life	Min. 1 year (O <sub>2</sub> units min. 10 months)
Degree of protection	IP68
Air pressure	700 to 1,300 hPa
Air humidity	10 to 90% relative humidity, non-condensing
Temperature	-22 °F to 131 °F, -30 °C to +55 °C (briefly down to -40 °F/ -40 °C for 1 hr, depending on sensor)
Approvals	cCSAus, IECEx, ATEX, CE



## PORTABLE GAS DETECTION

## Dräger X-am<sup>®</sup> 5100 Single-Gas Detector

For manufacturing petrochemical products, aseptic packing, or handling of rocket fuel: the Dräger X-am<sup>®</sup> 5100 portable single-gas detector ensures that you use the safest methods possible for handling HF, HCl, H<sub>2</sub>O<sub>2</sub> or hydrazine – thanks to proven Dräger sensor technology and a device design which is perfectly customised to reactive gases.

**Tightly fastening crocodile clip**  
Easy to attach, e.g. on the clothes

**Robust housing**  
Not sensitive to impacts, vibrations and electromagnetic radiation

**Simple two button operation**  
Intuitive to use

D-7474-2019



**Special device design  
with direct gas access**  
Quick response of the XS EC sensors

**Large display**  
All values at a glance

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER X-AM® 5100</b>			
Dräger X-am® 5100			
Consisting of: basic device with an integrated data logger, manufacturer's certificate and calibration certificate A power pack and sensor are integral elements of a functioning device.			8322750
<b>Sensors</b>			
DrägerSensor XS EC HF/HCl	Measurement Range: 0 – 30 ppm Resolution: 0.1 ppm Response time (t50): 60 seconds	1 / box	6809140
DrägerSensor XS EC H <sub>2</sub> O <sub>2</sub>	Measurement Range: 0 – 20 ppm Resolution: 0.1 ppm Response time (t90): 60 seconds	1 / box	6809170
DrägerSensor XS EC Hydrazine	Measurement Range: 0 – 3 ppm Resolution: 0.01 ppm Response time (t90): 180 seconds	1 / box	6809190
<b>Power supply units</b>			
NiMH power pack T4		1 / box	8318704
Alkaline power pack T3 / T4 (without alkaline batteries)		1 / box	8322237
Alkaline batteries T4 (2 pc.) for alkaline power supply 8322237		2 / box	8322239
<b>Charging accessories</b>			
Charging module		1 / box	8318639
Rechargeable battery and charging technology set Consisting of: NiMH power pack T4, charging module, single charger (worldwide) for 1 charging module (worldwide use)			8318785
Charging kit consisting of a charging module and a single charger (worldwide)		1 / box	8320333
Vehicle charging connecting cable 12V/24V for charging module (90 degree connector)		1 / box	4552324
Vehicle charger mounting kit for a Dräger X-am 1/2/5x00 charging module		1 / box	8318779
<b>Calibration accessories</b>			
Calibration adapter		1 / box	6806291
HCl test gas (10 ppm) for sensor 6809140		1 / box	6812107
HCl test gas (25 ppm) for sensor 6809140		1 / box	6812115
SO <sub>2</sub> test gas (10 ppm) for sensor 6809170		1 / box	6810645

## PORTABLE GAS DETECTION

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Accessories for measured value datalogger and configuration			
Dräger GasVision®		1 / box	8314034
Dräger CC-Vision®		1 / box	freeware
USB DIRA with USB cable, infrared communication adapter to USB		1 / box	8317409

## TECHNICAL DATA

Dimensions (H x W x D)	48 x 130 x 44 mm; 1.89 x 5.12 x 1.73 in.	
Weight	220 – 250 g; 7.8 – 8.8 oz.	
Ambient conditions	Temperature	-20 – +50 °C; -4 – 122 °F
	Pressure	700 to 1300 mbar; 20.7 to 38.4 inch Hg
	Humidity	10 – 90% RH
Alarms	Visual	360°
	Acoustic	Multi-tone > 90 dB at 30 cm; 1 ft.
	Vibration	
Ingress Protection	IP 54	
Operating times	~150 h (alkaline battery), ~150 h (NiMH rechargeable battery), or	
Charging times	< 4 hours	
Data logger	Retrievable using an infrared interface > 1000 h at a recording interval of 1 value per minute	
Approvals	ATEX	I M1 Ex ia I Ma II 1G Ex ia IIC T4/T3 Ga - 20 °C ≤ Ta ≤ + 55/40 °C
	IECEX	Ex ia I Ma Ex ia IIC T4/T3 Ga - 20 °C ≤ Ta ≤ + 55/40 °C
	CSA	Class I, Div. 1, Groups A,B,C,D TC T4/T3 Class I, Zone 0, A/Ex ia IIC T4/T3 /Ga
CE-mark	Electromagnetic compatibility Directive 2004 / 108 / EG; EN 50270:2006	

## PORTABLE GAS DETECTION

## X-site Live

### Wireless hazard area monitor

Real-time scalable area monitoring. Benefit from up to 7 toxic and combustible gas detection plus radiation sensors in a convenient, easy to carry case. Remote visibility with unsurpassed communications capability enabled by FirstNet® integration.



## PORTABLE GAS DETECTION

## TECHNICAL DATA

X-site Live Kit Specification	
Run time	14 hours on full charge
Communication Range	Cellular/Internet – unlimited Wi-Fi, 2.4 GHz – approximately 300 feet outdoors
Case dimensions	21 in x 15.5 in x 7.3 in (534 mm x 394 mm x 186 mm)
Total Kit Weight	22 lbs (10.0 Kg)
Mirion AccuRad™ Specification	
Weight	Version 1: 7 oz (200 g), including clip Version 2: 17" x 13" x 8" (43.18 x 33.02 x 20.32 cm) without antennas
Size	Version 1: 4.25 x 2.4 x 1.4 in. (108 x 61 x 36 mm) without clip Version 2: 12.8 lbs (5.81 kg)
Batteries	Two AA batteries for more than 900 hours of continuous operation Tool-less battery cover
IP Rating	Approx. 600 minutes of testing time
Temperature	5 x 1.5 v AA alkaline batteries
Drop	1.5 m (4 ft 11 in.) on concrete Innovative heavy-duty bi-material construction Replaceable fiber-reinforced clip
Modes of Operation	Dose or count rate Search with trend or radar 0–9 display indicator
Display	Top display enables hands-free visual alarm assessment
Languages	English, Spanish
Buttons and Navigation	Intuitive to use even without training Comfortable for one-handed operation
Alarming	Vibration Visual LED Audible sound: 85 dB(A) at 30 cm (11.8 in.)
Detectors	CsI(Tl) scintillation detector with temperature compensated SiPM for interdiction missions Silicon diode for integrated dose and high dose rate to ensure proper health and safety
Detection Performance	Alarms at 50 $\mu$ rem/h (0.5 $\mu$ Sv/h) within two seconds VBS: Authenticates true alarms in variable backgrounds Energy range: 25 keV to 3 MeV; detects all radionuclides of concern

## PORTABLE GAS DETECTION

### TECHNICAL DATA

Range	up to 1,000 rem/h (10 Sv/h) with measurement history
Batteries	±20%
Connectivity	Bluetooth®: Low Energy with Near Field Communications (NFC) pairing to smartphone USB: Type C for earphones and maintenance
Enabled Features	Remote display, access to history and logs Reachback/streaming: email, SMS, SpirVIEW Mobile software, RadResponder, ANSI N42.42 files Learning section with how-to videos and documentation
Accessories	AccuRad PRD, AA alkaline batteries, quick guide, spare clip USB C earphones, clip, battery cover Radiation safety training modules for law enforcement, fire rescue and other responders SpirVIEW Mobile command center software
Standards	Designed to meet or exceed ANSI N42.32 Designed to meet or exceed IEC 62401:2017 (PRD)
<b>Smart LINC Specification</b>	
Talk Time	21 hours
Standby Time	14 days
Battery Type	3,240 mAh non-removable Lithium ion (Li-ion)
Display	5" FHD, (1920 x1080 pixels), 443 ppi, Dragontrail™ PRO
Operating System	Android™ 9 (Pie)
Chipset	SDM630 Qualcomm® Snapdragon™ processor with 2.2 GHz x 1.8 GHz, Octa Core CPU
Radios	4G LTE CAT9: B1/B2/B3/B4/B5/B7/ B12/B14/B29/ B30/B66 GSM: Quad (2, 3, 5, 8) UMTS: 1, 2, 4, 5
Memory	64GB ROM/4GB RAM microSDXC memory card slot (supports up to 512 GB)
IM Type	Nano/4FF Size
Dimensions	150.2 x 73.4 x 13.5 mm (5.91 x 2.89 x .53 in)
Weight	235 g (8.3 oz)
Media formats	Audio: AAC, AAC+, eAAC+, AMR-NB, AMR-WB, FLAC, MP3, MIDI, Vorbis, PCM (WAVE), Opus, QCELP, EVRC Video: H.263, H.264, H.265, MPEG-4, VP8, VP9 Image: BMP, WBMP, GIF, JPEG, PNG, WEBP

## PORTABLE GAS DETECTION

### TECHNICAL DATA

MultiMeterViewer Specifications	
Operating System	Windows® 10
CPU	Intel® Generation 10 i3
Memory	4 GB
Free Space	Type SMA
Graphics Hardware	Intel® UHD Graphics (or equivalent) 1,355 x 768 HD
Sound Hardware	Stereo Speakers
Features	Remote Display of Meter's Faceplate
	Comprehensive Map View/Tool (GIS) with Export/Import
	Accurate 3D, real-time plume and backtrack tool
	Immediate Audible and Visual Alarms
	Integrated Live Video Player
	Simultaneous instrument tracking with color concentration gradation
	Special support for performing field surveys (live & Historical)
	Reading normalization using energy coefficients/correction factors
	Dynamic security controlling who gets to see specific data
	Asset management and tracking
	Secure interface to DNDO for radiological/nuclear emergencies
	Mobile versions (iPhone, iPad, Android and Blackberry)

## DRÄGER-TUBES® AND MICROTUBES

### GAS DETECTION TUBES

Short-Term Dräger-Tubes®	146
Dräger Diffusion Tubes	154

### PUMP FOR GAS DETECTION TUBES

Dräger Bio-Check Formaldehyde	156
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## DRÄGER-TUBES® AND MICROTUBES

### SAFETY TO GO.



Many hazards in the workplace cannot be detected by human senses: some toxic gases, oxygen deficiency, some combustible gases and vapors. These hazards pose a serious threat to human life and plant safety in many industries. When it comes to the reliable detection of known and unknown gases, you can rely on portable gas detection technology from Dräger. Our extensive product range offers you the perfect solution for every application.

The development of our Dräger-Tubes® more than eighty years ago laid the cornerstone for accurate gas detection. Today, thanks to continuous research and development, we now offer more than 250 Dräger-Tubes® able to detect over 500 substances. Combined with the Dräger X-act® 7000 system, an electronic form of the tube, Dräger provides you with some of the most accurate and reliable means available for spot concentration measurements in the parts per billion range.

#### Dräger Tubes Measurement-System

##### Dräger-Tubes®.

Each order number refers to one box of tubes. Usually one box contains ten tubes. In other cases the number in brackets behind the name of the tube indicates the measurements per box. For the Dräger-tubes the standard measuring range is mentioned. For a possible measuring range extension, please have a look into the instruction for use. The indicated measurement time relates regarding the Tubes for short term measurements to the stated numbers of strokes for the particular tube. If the measurement time is less than 1 Minute, it will be stated with the abbreviation "s" in seconds.

## DRÄGER-TUBES® AND MICROTUBES

## Dräger-Tubes® Measurement System

### Short-Term Dräger-Tubes®

Dräger-Tubes® are an easy to use and cost effective way to measure toxic gases and vapors in the workplace. More than 200 different Dräger-Tubes® are available to accurately make spot measurements for over 500 gases and vapors.

ST-1364-2004



## DRÄGER-TUBES® AND MICROTUBES

### DISCLAIMER

Dräger-Tubes are used in conjunction with either a manual or automatic sampling pump using individual Dräger-Tubes or special 5 tube sets for simultaneous measurement. Dräger Pumps and short-term Dräger-Tubes® are not interchangeable with other manufacturers' pumps and detector tubes.

DRÄGER-TUBE DESCRIPTION	STANDARD RANGE OF MEASUREMENT (20 °C, 1013 HPA):	MEASUREMENT TIME (SEC OR MIN)	ORDER NO.
Acetaldehyde 100/a	100 - 1000 ppm	5	6726665
Acetic Acid 5/a	5 - 80 ppm	30sec	6722101
Acetone 40/a (5)	40 -800 ppm	1	8103381
Acetone 100/b	100 - 12,000 ppm	4	CH22901
Acid Test	qualitative	3 sec	8101121
Acrylonitrile 0.2/a	0.2 - 4 ppm	4	8103701
Activation tube for use in conjunction with Formaldehyde 0.2/a tube			8101141
Amine-Test	qualitative	5 sec	8101061
Ammonia 0.25/a	0.25 - 3 ppm	1	8101711
Ammonia 2/a	2 - 30 ppm	1	6733231
Ammonia 5/a	5 - 70 ppm 50 - 600 ppm	6 sec	CH20501
Ammonia 5/b	5 - 100 ppm	10 sec	8101941
Ammonia 0.5%/a	0.5 - 10 ppm	20 sec	CH31901
Aniline 0.5/a	0.5 - 10 ppm	4	6733171
Aniline 5/a	1 - 20 ppm	3	CH20401
Arsine 0.05/a	0.05 - 3 ppm	6	CH25001
Benzene 0.25/a	0.25 - 2 ppm 2 - 10 ppm	5 1	8103691
Benzene 2/a (5)	2 - 60 ppm	8	8101231
Benzene 5/a	5 - 40 ppm	3	6718801
Benzene 5/b	5 - 50 ppm	8	6728071
Benzene 15/a	15 - -420 ppm	4	8101741
BTX (Toluene 5/b)	50 - 300 ppm 5 - 80 ppm	1 5	8101661
Carbon Dioxide 100/a	100 - 3,000 ppm	4	8101811
Carbon Dioxide 0.1%/a	0.5 - 6 Vol.-% 0.5 - 6 Vol.-%	30 sec	CH23501
Carbon Dioxide 0.5%/a	0.5 - 10 Vol.-%	30 sec	CH31401
Carbon Dioxide 1%/a	1 - 20 Vol.-%	30 sec	CH25101

## DRÄGER-TUBES® AND MICROTUBES

DRÄGER-TUBE DESCRIPTION	STANDARD RANGE OF MEASUREMENT (20 °C, 1013 HPA):	MEASUREMENT TIME (SEC OR MIN)	ORDER NO.
Carbon Dioxide 5%/A	5 - 60 Vol.-%	2	CH20301
Carbon Disulphide 3/a	3 - 95 ppm	2	8101891
Carbon Disulphide 5/a	5 - 60 ppm	3	6728351
Carbon Disulphide 30/a	0.1 - 10 mg/L	1	CH23201
Carbon Monoxide 2/a	2 - 60 ppm	4	6733051
Carbon Monoxide 5/c	100 - 700 ppm 5 - 150 ppm	30 sec 2.5	CH25601
Carbon Monoxide 8/a	8 - 150 ppm	2	CH19701
Carbon Monoxide 10/b	100 - 3,000 ppm 10 - 300 ppm	20 sec 4	CH20601
Carbon Monoxide 0.3%/b	0.3 - 7 Vol.-%	30 sec	CH29901
Carbon Tetrachloride 0.1/a	0.1 - 5 ppm	2.5	8103501
Carbon Tetrachloride 1/a	1 - 15 ppm	10	8101021
Chlorine 0.2/a	0.2 - 3 ppm 3 - 30 ppm	3 20 sec	CH24301
Chlorine 0.3/b	0.3 - 5 ppm	8	6728411
Chlorine 50/a	50 - 500 ppm	20 sec	CH20701
Chlorine Dioxide 0.025/a specific	0.025 - 0,1 ppm 0.1 - 1 ppm	7.5 2.5	8103491
Chlorobenzene 5/a (5)	5 - 200 ppm	3	6728761
Chloroform 2/a (5)	2 - 10 ppm	9	6728861
Chloroformates 0.2/b	0.2 - 10 ppm	3	6718601
Chloromethane 10/a	10-100 ppm	1.5	8103911
Chloroprene 5/a	5 - 60 ppm	3	6718901
Chloropicrine 0.1/a	0.1 - 2 ppm	7.5	8103421
Chromic Acid 0.1/a (9)	0.1 - 0.5 mg/m <sup>3</sup>	8	6728681
Cyanide 2/a	2 - 15 mg/m <sup>3</sup>	2	6728791
Cyanogen Chloride 0.25/a	0.25 - 5 ppm	5	CH19801
Cyclohexane 40/a	40 - 200 ppm 500 - 3000 ppm	75 sec 15 sec	8103671
Cyclohexylamine 2/a	2 - 30 ppm	4	6728931
Diesel Fuel	25 - 200 mg/m <sup>3</sup>	30	8103475
Diethyl Ether 100/a	100 - 4000 ppm	3	6730501
Dimethyl Formamide 10/b	10 - 40 ppm	3	6718501
Dimethyl Sulphate 0.005/c (9)	0.005 - 0.05 ppm	50	6718701

## DRÄGER-TUBES® AND MICROTUBES

DRÄGER-TUBE DESCRIPTION	STANDARD RANGE OF MEASUREMENT (20 °C, 1013 HPA):	MEASUREMENT TIME (SEC OR MIN)	ORDER NO.
Dimethyl Sulphide 1/a (5)	1 - 15 ppm	15	6728451
Epichlorhydrin 5/b	5 - 80 ppm	8	6728111
Ethanol 100/a	100 - 3000 ppm	1.5	8103761
Ethyl Acetate 200/a	200 - 3,000 ppm	5	CH20201
Ethyl Benzene 30/a	30 - 400 ppm	2	6728381
Ethylene 0.1/a (5)	0.2 - 5 ppm	30	8101331
Ethylene 50/a	50 - 2,500 ppm	6	6728051
Ethylene Glycol 10 (5)	10 - 180 mg/m <sup>3</sup>	7	8101351
Ethylene Oxide 1/a (5)	1 - 15 ppm	8	6728961
Ethylene Oxide 25/a	25 - 500 ppm	6	6728241
Ethyl Glycol Acetate 50/b	50 - 700 ppm	3	6726801
Fluorine 0.1/a	0.1 - 2 ppm	5	8101491
Formaldehyde 0.2/a	0.2 - 2.5 ppm 0.5 - 5 ppm	1.5	6733081
Activation Tube for use in conjunction with Formaldehyde 0.	2/a tube		8101141
Formaldehyde 2/a	2 - 40 ppm	30 sec	8101751
Formic Acid 1/a	1 - 15 ppm	3	6722701
Halogenated	100 - 2,600 ppm	1	8101601
Hydrocarbons 100/a (8)			
Hexane 10/a	10 - 200 ppm 300 - 2,500 ppm	5 1	8103681
Hydrazine 0.01/a	0.01 - 0.4 ppm 0.5 - 0.6 ppm	20 1	8103351
Hydrazine 0.25/a	0.25 - 10 ppm 0.1 - 5 ppm	1 2	CH31801
Hydrocarbon 2/a	2 - 24 mg/L	5	8103581
Hydrocarbon 0.1%/c	0.1 - 1.3 Vol.-%	2	8103571
Hydrochloric Acid 0.2/a	0.2 - 3 ppm 3 - 20 ppm	2 40 sec	8103481
Hydrochloric Acid 1/a	1 - 10 ppm	2	CH29501
Hydrochloric Acid 50/a	500 - 5,000 ppm 50 - 500 ppm	30 sec 4	6728181
Hydrochloric Acid /Nitric Acid 1/a			8101681
- Hydrochloric Acid	1 - 10 ppm	1.5	
- Nitric Acid	1 - 15 ppm	3	

## DRÄGER-TUBES® AND MICROTUBES

DRÄGER-TUBE DESCRIPTION	STANDARD RANGE OF MEASUREMENT (20 °C, 1013 HPA):	MEASUREMENT TIME (SEC OR MIN)	ORDER NO.
Hydrocyanic Acid 0.5/a	0.5 - 5 ppm 5 - 50 ppm	30 sec 0,5	8103601
Hydrogen 0.2%/a	0.2 - 2.0 Vol.-%	1	8101511
Hydrogen 0.5%/a	0.5 - 3.0 Vol.-%	1	CH30901
Hydrogen Fluoride 0.5/a	0.5 - 15 ppm 0.5 - 15 ppm	2 25 sec	8103251
Hydrogen Fluoride 1.5/b	1.5 -15 ppm	2	CH30301
Hydrogen Peroxide 0.1/a	0.1 - 3 ppm	3	8101041
Hydrogen Sulphide 0.2/a	0.2 - 5 ppm	5	8101461
Hydrogen Sulphide 0.2/b	0.2 - 6 ppm	55 sec	8101991
Hydrogen Sulphide 0.5/a	0.5 - 15 ppm	6	6728041
Hydrogen Sulphide 1/c	10 - 200 ppm 1 - 20 ppm	20 sec 3	6719001
Hydrogen Sulphide 1/d	10 - 200 ppm 1 - 20 ppm	1 10	8101831
Hydrogen Sulphide 2/a	20 - 200 ppm 2 - 20 ppm	20 sec 3.5	6728821
Hydrogen Sulphide 2/b	2 - 60 ppm	30 sec	8101961
Hydrogen Sulphide 5/b	5 - 60 ppm	4	CH29801
Hydrogen Sulphide 100/a	100 - 2,000 ppm	30 sec	CH29101
Hydrogen Sulphide 0.2%/A	0.2 - 7 Vol.-%	2	CH28101
Hydrogen Sulphide 2%/a	2 - 40 Vol.-%	1	8101211
Simultan. Tube H <sub>2</sub> S + SO <sub>2</sub> 0.2%/a	0.2 - 7 Vol.-%	2	CH28201
Iodine 0.1/a	1 - 5 ppm 0.1 - 0.6 ppm	1 5	8103521
i-Propanol 50/a	50 -4000 ppm	2.5	8103741
Mercaptan 0.1/a	0.1 -2.5 ppm 3 - 15 ppm	3 40 sec	8103281
Mercaptan 0.5/a	0.5 - 5 ppm	5	6728981
Mercaptan 20/a	20 - 100 ppm	2.5	8101871
Mercury Vapour 0.1/b	0.05 - 2 mg/m <sup>3</sup>	10	CH23101
Methanol 20/a	20 - 250 ppm 200 - 5000 ppm	6 2	8103801
Methyl Acrylate 5/a 5	5 - 200 ppm	5	6728161
Methyl Bromide 0.1/a	0.1 - 5 ppm 5 - 50 ppm	8 4	3706301

## DRÄGER-TUBES® AND MICROTUBES

DRÄGER-TUBE DESCRIPTION	STANDARD RANGE OF MEASUREMENT (20 °C, 1013 HPA):	MEASUREMENT TIME (SEC OR MIN)	ORDER NO.
Methylene Chloride 20/a	20 ppm	7	8103591
Natural Gas Odorization,	3 mg/m <sup>3</sup>	3	8103071
Tertiary Butylmercaptan	1 mg/m <sup>3</sup>	5	
Natural Gas Test (5)	qualitative	100	CH20001
n-Butanol 10/a	10 - 250 ppm 250 - 2000 ppm	6 1	8103861
Nickel Tetracarbonyl 0.1/a (9)	0.1 - 1 ppm	5	CH19501
Nitric Acid 1/a	5 - 50 ppm 1 - 15 ppm	2 4	6728311
Nitrogen Dioxide 0.1/a	0,1 - 5 ppm 5 - 30 ppm	75 sec 15 sec	8103631
Nitrogen Dioxide 2/c	5 - 100 ppm 2 - 50 ppm	1 2	6719101
Nitrous Fumes 0.2/a	0,2 - 6 ppm	75 sec	8103661
Nitrous Fumes 2/a	5 - 100 ppm 2 - 50 ppm	1 2	CH31001
Nitrous Fumes 20/a	20 - 500 ppm	30 sec	6724001
Nitrous Fumes 50/b	50 - 1,000 ppm 500 - 4,000 ppm	40 sec 80 sec	8103941
Oil 10/a-P	0.1 - 1 mg/m <sup>3</sup>	25	6728371
Oil Mist 1/a	1 - 10 mg/m <sup>3</sup>	25	6733031
Olefine 0.05%/a		5	6733031
- Propylene	0.06 - 3.2 Vol.-%		
- Butylene	0.04 - 2.4 Vol.-%	3	CH26303
Organ. Arsenic Compounds and Arsine	0.3 mg/m <sup>3</sup> as AsH <sub>3</sub>		
Organic Basic Nitrogen Compounds	1 mg/m <sup>3</sup>	1.5	CH25903
Oxygen 5%/B (8)	5 - 23 Vol.-%	1	6728081
Oxygen 5%/C	5 - 23 Vol.-%	1	8103261
Ozone 0.05/b	0.05 - 0.7 ppm	3	6733181
Ozone 10/a	20 - 300 ppm	20 sec	CH21001
Pentane 100/a	100 - 1,500 ppm	15 sec	6724701
Perchloroethylene 0.1/a	0.5 - 4 ppm 0.1 - 1 ppm	3 9	8101551
Perchloroethylene 2/a	20 - 300 ppm 2 - 40 ppm	30 sec 3	8101501
Petroleum Hydrocarbons 10/a	10 - 300 ppm	1	8101691

## DRÄGER-TUBES® AND MICROTUBES

DRÄGER-TUBE DESCRIPTION	STANDARD RANGE OF MEASUREMENT (20 °C, 1013 HPA):	MEASUREMENT TIME (SEC OR MIN)	ORDER NO.
Petroleum Hydrocarbons 100/a	100 - 2,500 ppm	30 sec	6730201
Phenol 1/b	1 - 20 ppm	5	8101641
Phosgene 0.02/a	0.02 - 1 ppm	6	8101521
	0.02 - 0.6 ppm	12	
Phosgene 0.25/c	0.25 - 5 ppm	1	CH28301
	0.01 - 0.3 ppm	8	
Phosphine 0.01/a	0.1 - 1 ppm	2.5	8101611
	0.01 - 0.3 ppm	8	
Phosphine 0.1/c	0.5 - 3 ppm	1	8103711
	0.1 - 1.0 ppm	2.5	
Phosphine 0.1/b in Acetylene	1 - 15 ppm	20 sec	8103341
	0.1 - 1 ppm	4	
Phosphine 1/a	10 - 100 ppm	2	8101801
	1 - 20 ppm	10	
Phosphine 25/a	200 - 10,000 ppm	1.5	8101621
	25 - 900 ppm	13	
Phosphine 50/a	50 ppm	2	CH21201
Phosphoric Acid Ester 0.05/a	0.05 ppm	5	6728461
Polytest	qualitative	1.5	CH28401
Pyridine 5/A	5 ppm	20	6728651
Styrene 10/a	10 - 200 ppm	3	6723301
Styrene 10/b	10 - 250 ppm	3	6733141
Styrene 50/a	50 - 400 ppm	2	CH27601
Sulphur Dioxide 0.1/a	0.1 - 3 ppm	20	6727101
Sulphur Dioxide 0.5/a	1 - 25 ppm	3	6728491
	0.5 - 5 ppm	6	
Sulphur Dioxide 1/a	1 - 25 ppm	3	CH31701
Sulphur Dioxide 20/a	20 - 200 ppm	3	CH24201
Sulphur Dioxide 50/b	400 - 8,000 ppm	15 sec	8101531
Sulphuric Acid 1/a (9)	1 - 5 mg/m <sup>3</sup>	100	6728781
Sulfuryl Fluoride 1/a (5)	1 - 5 ppm	3	8103471
Tertiary Butylmercaptan	3 - 15 mg/m <sup>3</sup>	3	8103071
Natural Gas Odorization	1 - 10 mg/m <sup>3</sup>	5	



## DRÄGER-TUBES® AND MICROTUBES

DRÄGER-TUBE DESCRIPTION	STANDARD RANGE OF MEASUREMENT (20 °C, 1013 HPA):	MEASUREMENT TIME (SEC OR MIN)	ORDER NO.
Tetrahydrothiophene 1/b (5)	1 - 10 ppm 4 - 40 mg/m <sup>3</sup>	10	8101341
Thioether	1 mg/m <sup>3</sup>	1.5	CH25803
Toluene 5/b	50 - 300 ppm 5 - 80 ppm	2 10	8101661
Toluene 50/a	50 - 400 ppm	1.5	8101701
Toluene 100/a	100 - 1,800 ppm	1.5	8101731
Toluene Diisocyanate 0.02/A (9)	0.02 - 0.2 ppm	20	6724501
Trichloroethane 50/d (5)	50 - 600 ppm	2	CH21101
Trichloroethylene 2/a	20 - 250 ppm 2 - 50 ppm	1.5 2.5	6728541
Trichloroethylene 50/a	50 - 500 ppm	1.5	8101881
Triethylamine 5/a	5 - 60 ppm	3	6718401
Vinyl Chloride 0.5/b	5 - 30 ppm 0.5 - 5 ppm	30 sec 3	8101721
Vinyl Chloride 100/a	100 - 3,000 ppm	4	CH19601
Water Vapour 0.1	1 - 40 mg/L	2	CH23401
Water Vapour 0.1/a	0.1 - 1.0 mg/L	1.5	8101321
Water Vapour 3/a	3.0 - 60 lbs/mmcf	90 sec	8103031
Water Vapour 1/b	20 - 40 mg/L 1 - 8 mg/L	20 sec 40 sec	8101781
Water Vapour 50/a	50 - 1000 lbs/mmcf	40 sec	8103021
Xylene 10/a	10 - 400 ppm	1	6733161

## DRÄGER-TUBES® AND MICROTUBES

## Dräger Diffusion Tubes

### Gas Detection Tubes

The Dräger Diffusion Tubes are direct reading systems used for the determination of time weighted average concentrations over the duration of one to eight hours.



## DRÄGER-TUBES® AND MICROTUBES

DRÄGER-TUBE DESCRIPTION	STANDARD RANGE OF MEASUREMENT FOR 1 H (20 °C, 1013 HPA):	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER DIFFUSION TUBES

Dräger diffusion tubes with direct indication			
Ammonia 20/a-D	20 - 1500 ppm*hours 2.5 - 200 ppm for 8 hours	10/pkg	8101301
Butadiene 10/a-D	10 - 300 ppm*hours 1.3 - 40 ppm for 8 hours	10/pkg	8101161
Carbon Dioxide 1%/a-D	1 - 30 vol%*hours 0.13 - 4 vol% for 8 hours	10/pkg	8101051
Nitrogen Dioxide 10/a-D	10 - 200 ppm*hours 1.3 - 25 ppm for 8 hours	10/pkg	8101111

## DRÄGER-TUBES® AND MICROTUBES

## Dräger Bio-Check Formaldehyde Indoor Air Detection

Dräger-Bio-Check F is an enzyme-based badge measurement system for conducting guideline measurements of formaldehyde which can be used without any additional accessories.



**DRÄGER-TUBES® AND MICROTUBES**

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**FORMALDEHYDE INDOOR PASSIVE MONITOR**

Dräger Bio-Check F with display packaging measuring system for an oriented determination of indoor formaldehyde concentrations in the air. Measuring time: 2 hours.

Dräger Bio-Check F,	single package	10	6400430
Dräger Bio-Check F,	5 packages of 3	15	6400465

## DRÄGER-TUBES® AND MICROTUBES

## Dräger accuro

### Pump for Gas Detection Tubes

Fast measurement with one hand: The Dräger-Tube pump accuro allows you to use the established Dräger-Tubes to take measurements under extreme conditions. The easy-to-use Dräger-Tubes have already been calibrated and form a perfect unit with the Dräger-Tube pump.



## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER ACCURO</b>			
Dräger accuro	Gas detector pump Dräger accuro and tube opener Dräger TO 7000	1 / box	6400000
Soft-Side accuro kit	accuro pump, tube opener, spare parts, allen tool, and nylon case	1 / box	8317186
Hard-Side accuro kit	accuro pump, tube opener, spare parts, allen tool, rubber caps and molded case	1 / box	4056443
Spare parts kit for Dräger accuro	6 x valve disc, 1 x window, 3 x membrane, 1 x insert and 1 x grommet	1 / box	6400220
Extension hose 1 m	Incl. adapter for Simultaneous Test Set	1 / box	6400561
Extension hose 3 m	Incl. adapter for tubes and adapter for hose in a carrying box	1 / box	6400077
Extension hose 10 m	Incl. adapter for tubes and adapter for hose	1 / box	6400078
Extension hose 15 m	Incl. adapter for tubes and adapter for hose	1 / box	6400079
Tube opener Dräger TO 7000		1 / box	6401200
Adapter for Dräger simultaneous test set	Incl. cutting holder and adapter	1 / box	6400090
Additional accessories upon request.			

## TECHNICAL DATA

Dimensions (W x H x D)	170 x 45 x 85 mm (6.7 x 1.8 x 3.3 in)		
Stroke volume	100 ±5 cm <sup>3</sup>		
Weight	220 – 250 g (8 - 9 oz)		
Ambient conditions	Temperature	-20 °C to +50 °C (-4 °F to +122 °F)	
	Relative humidity	0 – 95 % non-condensing	
	CE-certified (EN 0158)		
Approvals	ATEX	I M1	
		II 1GD IIB 85°C T6 II 2G IIC T6 -20 °C ≤ Ta ≤ +50 °C	
	DIN EN ISO	17621	

## DRÄGER-TUBES® AND MICROTUBES

## Dräger X-act® 5000 Basic Pump for Gas Detection Tubes

The automatic tube pump Dräger X-act® 5000 Basic is the all-in-one solution designed for measurements with Dräger short-term tubes and for sampling tubes and systems. Ease of operation and a high degree of reliability compliment the measurement and sampling of gases, vapors and aerosols.

Connection with Tube Swivel

**Display**

- Segment Display
- Matrix Display

D-0185-2019

Battery Pack (Drawer)



**Flashing Lights**  
Green: End of measurement  
Red: ERROR



## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER X-ACT® 5000</b>			
Dräger X-act® 5000 Basic			
Dräger X-act® 5000 Basic with shoulder strap	battery and charger ordered separately	1 / box	3707674
Power packs			
Rechargeable Battery NiMH, T4		1 / box	4523520
Charging accessories			
Wall-Wart Charger 100 – 240 VAC (worldwide)		1 / box	4523545
Car Charger 12 / 24 V		1 / box	4523511
Accessories			
Extension hose, Dräger accuro & Dräger X-act® 5000, 1 m, incl. adapter for Simultaneous Test Set		1 / box	6400561
Extension hose, Dräger accuro & Dräger X-act® 5000, 3 m, incl. adapter for tubes, adapter for hose in a carrying box		1 / box	6400077
Extension hose, Dräger accuro & Dräger X-act® 5000, 10 m, incl. adapter for tubes, adapter for hose		1 / box	6400078
Extension hose, Dräger accuro & Dräger X-act® 5000, 15 m, incl. adapter for tubes, adapter for hose		1 / box	6400079
Extension hose, Dräger X-act® 5000, 30 m, incl. adapter for tubes, adapter for hose		1 / box	6401175
SO <sub>3</sub> Filter Replacement		1 / box	8103525
Tube Opener 7000		1 / box	6401200
Hot Air Probe		1 / box	CH00213
Bar Probe		1 / box	8317188
Motor Vehicle Exhaust Gas Probe		1 / box	CH00214

## DRÄGER-TUBES® AND MICROTUBES

## TECHNICAL DATA

		Using Dräger short-term tubes
Short-term measurements	Number of strokes	adjustable, 1 to 199 strokes
	Stroke volume	100 mL
Sample taking	Flow rate range	0.1 to 2.0 L/min Resolution 0.1 to 1.0 L/min: 0.1 L/min ± 10 % Resolution 1.0 to 2.0 L/min: 0.2 L/min ± 10 %
	Sampling time	adjustable, up to 12 hours, depending on flow rate Resolution in steps of 15 minutes (default) or 1 minute
	Display	two parts: segment and matrix
Menu languages	Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Spanish, Swedish	
Use of extension hose	up to 30 meter (98 ft.)	
Dimensions (H x W x D)	approx. 175 x 230 x 108 mm (7" x 9" x 4.25")	
Weight (without battery pack)	approx. 1.6 kg (3.5 lbs)	
Ambient conditions	Temperature during storage	-20 °C to +50 °C (-4 °F to +122 °F)
	Temperature during operation	5 to 40 °C (41 to 104 °F)
	Humidity	0 to 95 % r. h., non-condensing
	Pressure	700 to 1,300 hPa (10.2 to 18.9 psi)
Power Packs	Rechargeable Battery NiMH, T4	7.2 V, 1,500 mAh (charging time < 4 hours)
	Battery capacity at 25 °C (77 °F)	Dräger short-term tubes: >1,000 strokes Sample taking: up to 12 hours, depending on adjusted flow rate
Approvals	ATEX	Ex ia IIC T4 Ga Ex ia I Ma I M1 / II 1G
	MED	Steering Wheel approval 96/98 EC
	cUL	Class I, Div. 1, Group A, B, C, D Class II, Div. 1, Group F, G 5 °C ≤ Ta ≤ + 40 °C Temp. Code T4 Ex ia
	IECEX	Ex ia I Ma Ex ia I Ma
	CE-mark	according to 2014/30/EU, 2014/34/EU and 2011/65/EU

## Dräger HazMat Simultest Kit

The Dräger HazMat Simultest Kit is designed to quickly determine the presence of inorganic and organic gases and vapors. The Simultaneous Test Sets I, II & III consist of five tube sets to detect toxic substances generated from burning combustible materials, flammable liquids or flammable gases and substances evolving from a chemical leak or spill.



## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER HAZMAT SIMULTEST KIT

## HazMat Simultest Kit

Includes: accuro® bellows pump with individual tube opener, spare parts, Simultaneous Set I (3 each), Simultaneous Set II (3 each), and Simultaneous Set III (4 each), simultaneous test set opener, 1-meter extension hose with 5-tube adapter, air current kit and laminated instruction cards with full color graphics.

A rugged Pelican carrying case protects the kits contents.

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

Space is provided in the kit for 6 additional boxes of standard Dräger-Tubes®. Dräger provides over 250 different chemical specific short term tubes for detection of over 1,000 chemicals.

## Test Set Information

Simultaneous Test Set I 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 <sub>2</sub> )			8101735
Simultaneous Test Set II Detects sulfur dioxide, chlorine, hydrogen sulfide, carbon dioxide and phosgene.			8101736
Simultaneous Test Set III 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)			8101770

## Dräger Civil Defense Simultest (CDS)

The Dräger CDS Kit uses specialized Dräger simultaneous tube sets to quickly and reliably detect the presence of nerve, blister, blood and choking agents.



## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER CIVIL DEFENSE SIMULTEST KIT

## Civil Defense Simultest Kit

Includes: accuro bellows pump with tube opener (2), spare parts, Civil Defense Simultest Set I (5), Civil Defense Simultest Set V (5) and 1-meter extension hose with 5-tube adapter (2).

A rugged Pelican carrying case protects the kits contents.

Civil Defense Simultest Kit	4523130
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Space is provided in the kit for 6 additional boxes of standard Dräger-Tubes®. Dräger provides over 250 different chemical specific short term tubes for detection of over 1,000 chemicals.

## Test Set Information

CDS Simultaneous Set I detects

Thioether (S-Mustard)

Phosgene

Hydrocyanic Acid

Organic Arsenic Compounds & Arsine (Lewisite) Organic Basic Nitrogen Compounds (N-Mustard)

8103140
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Simultaneous Set V detects

Cyanogen Chloride

Thioether (S-Mustard)

Phosgene

Chlorine

Phosphoric Acid Esters (Nerve agents e.g. GA, GB, GD)

8103200
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## Dräger Simultaneous Test Sets Gas Detection Tubes

Risks and potential dangers at a glance: The Simultaneous Test Sets allow the measurement of five different gases at the same time.



ST-6728-2006

## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER SIMULTANEOUS TEST SETS

Simultest Set I (inorganic gases)	Detection of: acid gases, basic gases, carbon monoxide, hydrocyanic acid & nitrous gases (NO & NO <sub>2</sub> )	5 / set	8101735
Simultest Set II (inorganic gases)	Detection of: phosphine, chlorine, hydrogen sulfide, phosgene & sulfur dioxide	5 / set	8101736
Simultest Set III (organic gases)	Detection of: alcohols, aliphatic hydrocarbons, aromatics, chlorinated hydrocarbons & ketones	5 / set	8101770
Civil Defense Simultest Set I	Detection of: S-mustard, phosgene, hydrogen cyanide, lewisite & N-mustard	5 / set	8103140
Civil Defense Simultest Set V	Detection of: nerve agent, phosgene, cyanogen chloride, chlorine & S-mustard	5 / set	8103200
Clan Lab Simultest Set	Detection of: phosphine, phosgene, ammonia, hydrochloric acid & iodine	5 / set	8103310
Simultaneous Test Set-Fumigation I	Detection of: ammonia, methyl bromide, hydrocyanic acid, phosphine & formaldehyde	5 / set	8103410
Simultaneous Test Set-Fumigation II	Detection of: formaldehyde, phosphine, hydrocyanic acid, methyl bromide & ethylene oxide	2 sets of 5 / set	8103380



## DRÄGER-TUBES® AND MICROTUBES

## Dräger Aerotest® Simultan HP

Dräger Aerotest® Simultan HP is used to determine the quality of respiratory air in high-pressure applications. Quantitative measurements for CO, CO<sub>2</sub>, H<sub>2</sub>O and condensed oil / lubricants in breathing apparatus cylinders and compressors are accomplished in minutes.



## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER AEROTEST SIMULTAN HP

Dräger Aerotest Simultan HP			
Comprised of one high pressure reducer, CGA-347 adapter, measuring device for 4 Dräger-Tubes			6525980
impactor adapter, stopwatch, tube opener Dräger TO 7000, bubble test hose, instruction for use, transport case			
Dräger Simultan HP comprised of one high pressure reducer, CGA-347 adapter, measuring device for the tubes and oil impactor, impactor adapter, stopwatch, tube opener, kit without Dräger-Tubes		1 / box	6525980
Dräger Simultan HP <u>complete</u> with Dräger-Tubes:			6525990
pack of 10 Dräger Oil Impactors			8103560
box of 10 Dräger-Tubes, CO2 100/a-P			6728521
box of 10 Dräger-Tubes CO 5/a-P			6728511
box of 10 Dräger-Tubes H2O 20/a-P			8103061
Adapter, oil impactor			8103557

## TECHNICAL DATA

Dimensions [L x W x H, mm]	350 x 300 x 85 (13.8 x 11.8 x 3.3 in)
Weight [kg]	approx. 3.0 (6.6 lbs)
Supply Pressure [bar]	Max. 4,500 psi
Connection	CGA-347
Flow [L/min]	0.2 and 4.0

## OXYGEN MEASUREMENT

T-piece (tubing not included)	6525971
Tubing size 3/16 inch (5 mm) ID made of FKM, EPDM or rubber)	
pack of 10 Dräger-Tubes O2 5%/C	8103261
Dräger accuro hand pump	6400000

## DRÄGER-TUBES® AND MICROTUBES

## Dräger Aerotest® Alpha Dräger-Tubes®

The Dräger Aerotest® Alpha is the instrument of choice for monitoring the purity of breathing air in the low pressure range. In combination with the Dräger Oil Impactor, the system achieves an unprecedented quality of breathing air monitoring.



## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER AEROTEST ALPHA

Dräger Aerotest Alpha			
	Comprising of 1 pressure reducer, measuring device for 4 Dräger-Tubes®, impactor adapter, coupling, barbed nipple, stopwatch, tube opener Dräger TO 7000, bubble test hose, instruction for use, transport case (black), kit without Dräger-Tubes		6527149
	Dräger Alpha <u>complete</u> with Dräger-Tubes:		6527150
	pack of 10 Dräger Oil Impactors		8103560
	box of 10 Dräger-Tubes, CO2 100/a-P		6728521
	box of 10 Dräger-Tubes CO 5/a-P		6728511
	box of 10 Dräger-Tubes H2O 20/a-P		8103061
	Adapter, oil impactor		8103557

## TECHNICAL DATA

Dimensions [L x W x H, mm]	350 x 300 x 85 (13.8 x 11.8 x 3.3 in)
Weight, including contents	approx. 3.0 kg
Max. supply pressure	15 bar
Pressure gauge	0.3 to 15 bar
Connection for compressed air supply, barbed nipple	9 mm
Supply pressure (set on delivery)	3.0 bar
Flow rate	0.2 and 4.0 l/min

## OXYGEN MEASUREMENT

T-piece (tubing not included) Tubing size 3/16 inch (5 mm) ID made of FKM, EPDM or rubber)	6525971
pack of 10 Dräger-Tubes O2 5%/C	8103261
Dräger accuro hand pump	6400000

## DRÄGER-TUBES® AND MICROTUBES

## Dräger MultiTest med. Int. Gas Detection Tubes

Designed to meet the requirements of medical supply systems, the Dräger MultiTest med. Int. checks the purity of medical gases. A single test system is all that is needed to detect contaminants in compressed air, nitrous oxide, carbon dioxide and oxygen.



## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER MULTITEST MED. INT.

Dräger MultiTest med. Int.

Dräger MultiTest med. Int. (Impactor and tubes not included) comprising of 1 O<sub>2</sub> pressure regulator, measuring device for 7 tubes, impactor adapter, NIST connector, closing coupling, stopwatch, tube opener Dräger TO 7000, bubble test hose, instruction for use, transport case (blue), kit without Dräger-Tubes

6527319

Dräger MultiTest med. Int. complete with Dräger-Tubes:

6520260

pack of 10 Dräger Oil Impactors,

8103560

box of 10 Dräger-Tubes carbon dioxide (CO<sub>2</sub>) 100/a-P,

6728521

box of 10 Dräger-Tubes carbon monoxide (CO) 5/a-P,

6728511

box of 10 Dräger-Tubes nitrous gases (NOX) 0.2/a,

8103661

box of 10 Dräger-Tubes sulfur dioxide (SO<sub>2</sub>) 0.5/a,

6728491

box of 10 Dräger-Tubes hydrogen sulfide (H<sub>2</sub>S) 1/d,

8101831

box of 10 Dräger-Tubes water vapor (H<sub>2</sub>O) 20/a-P

8103061

Adapter, oil impactor

8103557

## TECHNICAL DATA

Dimensions of carrying case (L x W x H)	400 x 300 x 91 mm (15.8 x 11.8 x 3.6 in)
Weight, including contents	approx. 3.0 kg (6.6 lbs)
Max. supply pressure	20 bar (290 psi)
Supply pressure (set on delivery)	3.0 bar
Connection for compressed air supply	9 mm barbed nipple
Flow rate	0.2 and 4.0 (l/min.)

## OXYGEN MEASUREMENT

T-piece (tubing not included)  
Tubing size 3/16 inch (5 mm) ID made of FKM, EPDM or rubber)

6525971

pack of 10 Dräger-Tubes O<sub>2</sub> 5%/C

8103261

Dräger accuro hand pump

6400000

## DRÄGER-TUBES® AND MICROTUBES

## Dräger Aerotest® SimultanTest CO<sub>2</sub> Gas Detection Tubes

The Dräger SimultanTest CO<sub>2</sub> allows the purity of carbonic acid to be measured in the 3 bar low pressure range.



## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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DRÄGER SIMULTANTEST CO<sub>2</sub>

Dräger SimultanTest CO <sub>2</sub>			
Dräger SimultanTest CO <sub>2</sub> : (Impactor and tubes not included) comprising of 1 O <sub>2</sub> pressure regulator, measuring device for 7 tubes, closing coupling (G 1/4), stopwatch, tube opener Dräger TO 7000, instruction for use, transport case (blue), kit without Dräger-Tubes			6526743
Dräger SimultanTest CO <sub>2</sub> <u>complete</u> with Dräger-Tubes:			6526170
box of 10 Dräger-Tubes nitrous gases (NOX) 0.2/a,			8103661
box of 10 Dräger-Tubes ammonia (NH <sub>3</sub> ) 2/a,			6733231
box of 10 Dräger-Tubes phosphine (PH <sub>3</sub> ) 0.1/c,			8103711
box of 10 Dräger-Tubes carbon monoxide (CO) 5/a-P,			6728511
box of 10 Dräger-Tubes sulfur dioxide (SO <sub>2</sub> ) 1/a,			CH31701
box of 10 Dräger-Tubes hydrogen sulfide (H <sub>2</sub> S) 0.2/a,			8101461
box of 10 Dräger-Tubes water vapor (H <sub>2</sub> O) 5/a-P,			6728531

## TECHNICAL DATA

Dräger SimultanTest CO <sub>2</sub>	
Dimensions of carrying case (L x W x H)	350 x 300 x 85 mm (13.8 x 11.8 x 3.3 in)
Weight, including contents	ca. 3.0 kg (6.6 lb)
Min/Max. supply pressure	3 to 20 bar (43.5 to 290 psi)
Connections	Quick-lock coupling (external thread G 1/4)
Connection for compressed air supply	9 mm barbed nipple
Flow rate	0.2, 0.8 and 2.0 l/min



## DRÄGER-TUBES® AND MICROTUBES

## Dräger Flow Check

### Air Flow Indicator

The Dräger Flow Check air current indicator produces a harmless cloud of smoke that floats freely and easily, because it has the same density as ambient air. Consequently, slight air currents become visible to easily identify leaks and test the integrity of air-tight systems.



## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER FLOW CHECK

Dräger Flow Check			
Air flow indicator with one pack of 3 ampoules, battery pack and charger, packaged in a rigid plastic case.			6400761
Accessories			
Flow Check ampoules (3 ampoules and 1 nozzle)		3 / box	6400812
Battery Charger 110 VAC		1 / box	3703625
Battery pack		1 / box	6400817

## TECHNICAL DATA

Operating Temperature	5 °C to 40 °C (41 °F to 104 °F)
Smoke Time per Ampoule	approx. 3 min
Operating Time per Battery Charge	approx. 20 min
Ni-Cd rechargeable Battery	7.2 V; 1.4 Ah
Charging current	700 mA
Dimensions	approx. 300 mm x 200 mm x 70 mm (11.8 in x 7.8 in x 2.8 in)
Weight	approx. 500 g (1.1 lbs.)

## DRÄGER AIR-FLOW TESTER

Dräger Air-flow tester			
Air-flow tester	Air-flow tester kit contained in a carrying box, comprising an Aspirator bulb, air flow, test tubes (10 pieces) and rubber cups.		CH00216

Accessories			
Air-flow test tubes (pack of 10)			CH25301
Aspirator bulb			4054382
Package of 10 rubber cups			CH16631

## DRÄGER-TUBES® AND MICROTUBES

## Dräger X-act® 7000 Multi-Gas Detector

The innovative Dräger X-act® 7000 analysis system consists of Dräger MicroTubes and an opto-electronic analysis device that lets you precisely measure gases in the low ppb range. It gives you precise results right on site, replacing slow, expensive lab analyses. It's extremely easy to use: insert the Dräger MicroTubes, start measuring, then read out the test result.

**2.4 inch, high contrast colour display**  
160° viewing angle and day/night reading mode

**3-button control**  
For fast and easy operation

**Automatic drive**  
For retracting the Dräger MicroTubes



**LED status indicator**  
Green LED glows  
when test is complete

**Dräger MicroTubes**  
For 10 measurements per gas.  
Read test specifications by RFID

## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>Pump accessories</b>			
Dräger X-act® 7000 Coupler		1 / box	8610810
Dräger X-am® Pump		1 / box	8327115
<b>Other accessories</b>			
Dräger X-act® 7000 Pre-tube holder		1 / box	3701985
Dräger Tubes® ppb-Booster Basic		10 / box	3702013
Tube opener, TO 7000		1 / box	6401200
Alkaline batteries		5 / box	3703133
"Silver" Sticker Set, 5 pieces		5 / box	8327645
"Blue" Sticker Set, 5 pieces		5 / box	8327646
"Red" Sticker Set, 5 pieces		5 / box	8327647
"Green" Sticker Set, 5 pieces		5 / box	8327648
"Yellow" Sticker Set, 5 pieces		5 / box	8327649
Carry case, 470 x 365 x 190 mm, black		1 / box	3703690
Display protector film (3 pcs.)		3 / box	8326828
Dust and water filter for pump inlet		1 / box	8319364
Filter Set, 20 pieces per pack (no Luer adaptors)		20 / box	3705997
<b>Probes</b>			
Rigid probe set, GP 600 (50 cm / 20 in) with 1 m / 39 in FKM hose		1 / box	8328667
Flexible, semi-rigid probe (70 cm / 27 in) with 1 m / 39 in FKM hose		1 / box	8316531
Rigid fiberglass probe (90 cm / 35 in) with 1 m / 39 in FKM hose		1 / box	8316532
ES150 Telescopic probe (max. length: 150 cm / 59 in)		1 / box	8316533
<b>Hoses</b>			
PTFE-lined PVC hose, 3 m (9.8 ft)		1 / box	8326980
PTFE-lined PVC hose, 15 m (49.2 ft)		1 / box	4594679
Replacement hose for probes, 2 m (6.6 ft)		1 / box	8318205
FKM hose, inner diameter: 3.2 mm, length: 5 m (16.4 ft)		1 / box	8325705
FKM hose, inner diameter: 3.2 mm, length: 10 m (32.8 ft)		1 / box	8325706
FKM hose, inner diameter: 3.2 mm, length: 20 m (65.6 ft)		1 / box	8325707
FKM hose, inner diameter: 3.2 mm, length: 45 m (147.6 ft)		1 / box	8328212
Hose connector, outer diameter: 5 mm (10 pcs.)		10 / box	8320087
<b>Adapter</b>			
Luer Adapter Set 3 + 5 mm		1 / box	8328213

## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## DRÄGER X-ACT® 7000

## Dräger X-act® 7000

Consisting of: Basic device X-act® 7000 incl. batteries, shoulder strap complete, MicroTube Demo, Torx T10 screwdriver, USB cable 2 m with Mini-connection

8610800

## Dräger MicroTubes\*

Acetone	Test Range: 25 - 5,000 ppm Test time (min-max): 20 - 500 seconds	10 / pkg	8610470
Alcohol (Methanol)	Test Range: 10 - 5,000 ppm Test time (min-max): 20 - 450 seconds	10 / pkg	8610380
Alcohol (Ethanol)	Test Range: 5 - 2,500 ppm Test time (min-max): 20 - 450 seconds	10 / pkg	8610380
Alcohol (i-Propanol)	Test Range: 10 - 5,000 ppm Test time (min-max): 20 - 450 seconds	10 / pkg	8610380
Alcohol (n-Butanol)	Test Range: 7 - 3,330 ppm Test time (min-max): 20 - 450 seconds	10 / pkg	8610380
Ammonia	Test Range: 1 - 100 ppm Test time (min-max): 10 - 75 seconds	10 / pkg	8610130
Ammonia	Test Range: 100 - 2,500 ppm Test time (min-max): 3 - 45 seconds	10 / pkg	8610020
Benzene	Test Range: 1 - 150 ppb Test time (min-max): 100 - 900 seconds	10 / pkg	8610600
Benzene	Test Range: 0.15 - 10 ppm Test time (min-max): 25 - 150 seconds	10 / pkg	8610030
Benzene	Test Range: 10 - 100 ppm Test Time (min-max): 10 - 75 seconds	10 / pkg	8610280
1,3-Butadiene	Test Range: 25 - 500 ppb Test time (min-max): 200 - 600 seconds	10 / pkg	8610460
1,3-Butadiene	Test Range: 0.5 - 25 ppm Test time (min-max): 10 - 280 seconds	10 / pkg	8610300
Carbon Dioxide	Test Range: 200 - 50,000 ppm Test time (min-max): 2 - 120 seconds	10 / pkg	8610190
Carbon Monoxide	Test Range: 2 - 1,000 ppm Test time (min-max): 5 - 300 seconds	10 / pkg	8610080
Chlorine	Test Range: 50 - 5,000 ppb Test time (min-max): 10 - 400 seconds	10 / pkg	8610010
Demo	Test Range: NA Test time (min-max): approx. 30 seconds	10 / pkg	8610290
Ethylene oxide	Test Range: 25 - 250 ppb Test time (min-max): 150 - 600 seconds	10 / pkg	8610200
Ethylene oxide	Test Range: 0.25 - 10 ppm Test time (min-max): 100 - 500 seconds	10 / pkg	8610580

## DRÄGER-TUBES® AND MICROTUBES

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Formaldehyde	Test Range: 5 – 150 ppb Test time (min-max): 360 – 960 seconds	10 / pkg	8610540
Formaldehyde	Test Range: 0.15 – 3 ppm Test time (min-max): 300 – 600 seconds	10 / pkg	8610100
Hydrochloric Acid	Test Range: 0.5 - 25 ppm Test time (min-max): 10 - 100 seconds	10 / pkg	8610090
Hydrocyanic Acid	Test Range: 0.5 - 50 ppm Test time (min-max): 20 - 180 seconds	10 / pkg	8610520
Hydrogen Sulfide	Test Range: 0.1 - 50 ppm Test time (min-max): 5 - 960 seconds	10 / pkg	8610050
Hydrogen Sulfide	Test Range: 100 - 2,000 ppm Test Time (min-max): 15 - 180 seconds	10 / pkg	8610220
Mercaptan	Test Range: 50 - 6,000 ppb Test time (min-max): 15 - 360 seconds	10 / pkg	8610360
Mercury	Test Range: 0.005 – 0.25 mg/m <sup>3</sup> Test time (min-max): 240 – 1,200 seconds	10 / pkg	8610350
MTBE	Test Range: 2 - 200 ppm Test Time (min-max): 60 - 450 seconds	10 / pkg	8610530
Nitrogen Dioxide	Test Range: 0.25 - 50 ppm Test time (min-max): 10 - 210 seconds	10 / pkg	8610120
Nitrous Fumes	Test Range: 0.25 - 50 ppm Test time (min-max): 5 - 120 seconds	10 / pkg	8610060
Ozone	Test Range: 10 - 1,000 ppb Test Time (min-max): 50 - 840 seconds	10 / pkg	8610430
Perchloroethylene	Test Range: 1 - 500 ppm Test time (min-max): 25 - 240 seconds	10 / pkg	8610040
Petroleum Hydrocarbons	Test Range: 10 - 300 ppm Test time (min-max): 10 - 360 seconds	10 / pkg	8610270
Phosgene	Test Range: 10 - 1,000 ppb Test time (min-max): 10 - 300 seconds	10 / pkg	8610340
Sulfur Dioxide	Test Range: 0.05 - 5 ppm Test time (min-max): 20 - 480 seconds	10 / pkg	8610110
Toluene	Test Range: 10 - 1,000 ppm Test time (min-max): 6 - 360 seconds	10 / pkg	8610250
Trichloroethylene	Test Range: 0.25 - 50 ppm Test Time (min-max): 20 - 270 seconds	10 / pkg	8610320
Xylene	Test Range: 10 - 1,000 ppm Test time (min-max): 10 - 240 ppm	10 / pkg	8610260

\* Each MicroTube offers 10 tests

## DRÄGER-TUBES® AND MICROTUBES

### TECHNICAL DATA

Dimensions (L x W x H)	195 mm x 85 mm x 70 mm (7.7 in x 3.3 in x 2.8 in)
Measuring range and resolution	Varies, depending on the Dräger MicroTubes in use
Typical testing time	From 5 seconds to 1,200 seconds, depending on the Dräger MicroTubes in use and the concentration of the test substance.
Ready to use	Immediately
Calibration	Not necessary
Operating temperature	0 to +50 °C (+32 to +122 °F)
Storage temperature	-20 to +55 °C (-4 to +131 °F) (Analyzer) +4 to +25 °C (+39 to +77 °F) (Dräger MicroTubes)
Air pressure	cCSAus, IECEx, ATEX, CE
Humidity	0 to 95 % relative humidity, non-condensing
Recording of measured data	CMOS sensor optics and LED light
System diagnostics	Automatic, using micro-controllers for all system components
Display	2.4 inch high contrast, color display with a resolution of 240 x 320, viewing angle of 160°
Menu languages	30
Operating time	Approx. 600 minutes of testing time
Power supply	5 x 1.5 v AA alkaline batteries; refer to the IFU for approved types
Approvals	ATEX/IECEX, II 1G Ex IIC T4 Ga cCSAus, Class I, Zone 0, AEx ia IIC T4 Ga
Protection class	IP54, dust- and splash-resistant

## ALCOHOL AND DRUG TESTING

### ALCOHOL AND DRUG TESTING

Dräger Alcotest® 4000	185
Dräger Alcotest® 5000	188
Dräger Alcotest® 5820	191
Dräger Alcotest® 6000	194
Dräger Alcotest® 6820 DOT	197
Dräger Alcotest® 7000	200
Dräger DrugTest 5000	203



## ALCOHOL AND DRUG TESTING

## Dräger Alcotest® 4000

### Alcohol breath device for mass screening

The Dräger Alcotest® 4000 breathalyzer offers responsible drivers a reliable way to test their breath alcohol and gives them the assurance of being legal to drive. This is ensured by the same precise measurement technology used by law enforcement to conduct over 30 million breath alcohol tests a year.



## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## TECHNICAL DATA

Measuring principle	Electrochemical Dräger sensor for 1/4" technology, alcohol specific
Measuring range	0 to 0.50 % BrAC; if the limits of the measuring range are exceeded, a message is displayed
Sampling	Automatic sampling when minimum blow time is reached; Automatic sampling when end of breath is reached; depending on configuration
Ready for use	Approx. 4 seconds after switching on
Display of the measurement results	After approx. 3 s (at 0.00 % BrAC); After approx. 10 s (at 0.10 % BrAC, room temperature)
Operating temperature	-5°C to +50°C / 23°F to 122°F
Relative humidity	10 to 100 % relative humidity (non-condensing and in operating state)
Ambient pressure	600 to 1,300 hPa / 17.7 to 38.4 inch Hg
Display	Graphic backlit LCD display; 32 x 22 mm / 1.3 x 0.9 inch (128 x 64 pixels)
LED	Blue light emitting diode (LED) to support the indication of results and warning message
Audible signal	Various acoustic signals to support messages and warnings on the display
Datalogger	Memory of last 400 tests
Power supply	Replaceable CR123A-Battery (1 pc.), charge level indicator in display, with one battery up to 1,500 breath tests can be done.
Mouthpiece	Hygienically and individually packed
Operating concept	Measurement functions can be performed using just one button
Calibration	Wet gas or dry gas calibration
Housing	Impact resistant ABS/PC
Dimensions (W x H x D)	Approx. 50 x 133 x 29 mm / 2.0 x 5.3 x 1.1 inches
Weight	Approx. 120 g / 4.2 oz. including battery
Vibration and shock	EN 60068-2-32
CE marking	CE conform
Norms	EN 15964, NHTSA, FDA Conformity, depending on configuration
Integrated clock	To show the last service date
IP protection class	IP52

## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER ALCOTEST® 4000</b>			
Dräger Alcotest® 4000 – USA			3706325
Dräger A4000 additional 5 mouthpieces, hygienically and individually packed			8325250
Microfiber bag			8324994

## ALCOHOL AND DRUG TESTING

## Dräger Alcotest® 5000

### Alcohol breath device for mass screening

The Dräger Alcotest® 5000 is a highly reliable breath-alcohol tester that detects the presence of alcohol. This high-speed breathalyzer lets you perform up to 12 tests per minute. Its special non-contact funnel reduces the back-flow of expired air to a minimum, preventing the risk of infection to subsequent test subjects.

**Exchangeable funnel**

Prevents backflow of expired air

**Display**

Shows test results, warnings and additional information

**OK button**

Provides simple, one-button operation

**LEDs**

Bright, easy-to-read

**Menu buttons**

Simplify menu navigation

**Electrochemical (EC) DrägerSensor®**

Ensures very fast response times and high reliability

**3x AA alkaline batteries**

Power for more than 5,000 tests



## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER ALCOTEST® 5000</b>			
Dräger Alcotest® 5000, V1 - FDA Compliant Languages: EN, DE, FR, ES, NL, IT, CA, PT		1 / box	8327701
Alcotest® 5000 funnels, 10 pc., individually hygienically packaged		1 / box	8327718
Calibration Adapter Alcotest® 5000		1 / box	8327741
Reflector film set (yellow), Alcotest® 5000		1 / box	8327742
Reflector film set (orange), Alcotest® 5000		1 / box	8327743
Alkaline batteries (Mignon, LR6, AA, 1.5V) – 3 batteries required		1 / box	1335804

## TECHNICAL DATA

Measuring range	<p>0 to 0.006 %BAC → "Tick mark" symbol on the display screen means "No Alcohol Detected", visually supported by a green LED.</p> <p>Over 0.006 %BAC → "X" symbol on the display screen means 'Alcohol Detected', visually supported by a red LED.</p> <p>Over 0.535 %BAC → Measuring range exceeded (↑↑↑)</p>
Standard sampling	Sampling starts automatically when the minimum volume or predefined blowing time is reached. Passive sampling can be done with or without a funnel. Sampling can be triggered manually while the test subject blows into the funnel.
Start-up time	Ready to use approx. 4 sec. after switching on
Display of test results	After approx. 2 sec. (at 0 to 0.006 %BAC); after approx. 6 sec. (at e.g. 0.105 %BAC, at room temperature).
Measurement basis	Electrochemical DrägerSensor®, alcohol-specific
Display	Graphic LCD display with backlight 32 x 22 mm (128 x 64 pixel)
LEDs	Two-colours, for supporting test results and warning messages on the display
Acoustic signals	Various signal tones for supporting display and warning messages
Memory	Memory Stores the latest 500 test results with test number, date and time
Energy supply	Energy supply 3x AA batteries, charge status shown on display; with the battery life from 3x AA batteries, more than 5,000 tests can be performed.
Funnel intake	Click adapter for funnel
Funnel	Hygienic, individually packaged with air outlets for minimizing back-flow of expired air

## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## TECHNICAL DATA

Operating design	Test functions are started with the "OK" button; two arrow buttons are used to navigate through the menu.
Calibration	Wet- or dry-gas calibration with the Alcotest 5000 calibration adapter
Exterior	Impact-proof ABS/PC
Dimensions (W x H x D),	Weight Approx. 63 x 219 x 41 mm; approx. 245 g incl. funnel and batteries
Vibration and impact resistance	EN 60068-2-27, EN 60068-2-6; EN 60068-2-64
CE marking	EMC Directive
Standards	Contactless breath-alcohol testing devices are currently not subject to any standards
Internal clock	Warning 30 days before service interval expires
Operating temperature	-15 °C to +50 °C
Air humidity	10 to 100 % relative humidity (not condensed and in operation)
Ambient pressure	600 to 1,300 hPa

## ALCOHOL AND DRUG TESTING

## Dräger Alcotest® 5820

### Alcohol Screening Device

The Dräger Alcotest® 5820 allows the professional user to perform a breath alcohol test with speed and precision. The measuring technology of this small and user-friendly portable breathalyzer has already been proven with over 200,000 units in use worldwide.



## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER ALCOTEST® 5820</b>			
Dräger Alcotest® 5820 – USA		1 / box	8324940
Mouthpiece – Package with 100 pieces		1 / box	6810690
Mouthpiece – Package with 250 pieces		1 / box	6810825
Mouthpiece – Package with 1,000 pieces		1 / box	6810830
Mouthpiece with non return valve – Package with 100 pieces		1 / box	6811055
Mouthpiece with non return valve – Package with 250 pieces		1 / box	6811060
Mouthpiece with non return valve – Package with 1,000 pieces		1 / box	6811065
Protection bag, black		1 / box	8324999
Battery		1 / box	4543808

## TECHNICAL DATA

Principle of measurement	Electrochemical DrägerSensor in 1/4" technology; alcohol-specific
Measuring range	0 to 2.5 mg/L" with "0 to 0.525 %BAC; if measurement range limit is exceeded, a message is displayed
Sampling	Standard: automatic sampling when minimum volume resp. defined blow time is reached; Passive sampling without mouthpiece or manual initiation of sampling possible
Ready for use	Approximately 2 s after switching on
Display of measurement result	After approx. 3 s (at 0 %BAC); after approx. 10 s (at 0.105 %BAC, room temperature)
Operating temperature	- 5 to + 50°C/23 to 122°F
Humidity	10 to 100 % relative humidity (non-condensing and in operating state)
Ambient pressure	600 to 1,300 hPa/17.7 to 38.4 inch Hg
Display	Graphic backlit LCD display; 32 x 22 mm/1.3" x 0.9" (128 x 64 pixels)
LED	2-colour, to support display of results and warning messages
Audible signal	Different signal tones to support display messages and warnings
Datalogger	Storage of last 100 tests with test numbers
Power supply	1 x CR123A-Battery, charge level indicator in display, with one battery approx. 1,500 breath tests can be done.



## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Mouthpiece adaption	Improved Slide 'N' Click mouthpiece attachment; can be fitted for right or left orientation		
Mouthpiece	Hygienically, individually packaged, with tamper-proof, non-obstructable air outlet, mouthpiece ejector, and spacer between mouth and instrument housing		
Operating concept	Measurement functions can be performed using just one button; menu navigation is via two menu button		
Calibration	Wet gas or dry gas calibration		
Housing	Impact resistant ABS/PC		
Dimensions (H x W x D)	Approx. 50/60 x 141 x 31 mm / 2"/2.4" x 5.6" x 1.2"		
Weight	Approx. 150 g / 0.33 lbs, incl. battery		
Instrument configuration	Direct menu-guided configuration of instrument settings (PIN required) No additional PC software needed		
Vibration and shock	EN 60068-2-27, EN 60068-2-6; EN 60068-2-64		
CE marking	2014/30/EU (electromagnetic compatibility)		
Norm	EN 15964, NHTSA, FDA Conformity, depending on configuration		
Internal clock	Warning or deactivation after end of service interval		
Protection type	IP54		

## ALCOHOL AND DRUG TESTING

## Dräger Alcotest® 6000

### Alcohol breath device for mass screening

The Dräger Alcotest® 6000 allows the professional user to perform a breath alcohol test with speed and precision. The measuring technology of this small and user-friendly portable measuring device has already been proven worldwide and has been sold over 1,000,000 times.



## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## TECHNICAL DATA

Measuring principle	Electrochemical DrägerSensor in 1/4" technology; alcohol specific
Measuring range	0 to 0.525 %BAC; if measurement range limit is exceeded, a message is displayed
Sampling	Standard: automatic sampling when minimum volume resp. defined blow time is reached; Passive sampling without mouthpiece or manual initiation of sampling possible
Ready for use	Approx. 2 seconds after switching on
Display of measurement result	After approx. 3 s (at 0 mg/l, room temperature)
Operating temperature	-5 to +50 °C / 23 to 122 °F
Relative humidity	10 to 100 % relative humidity (non-condensing and in operating state)
Ambient pressure	600 to 1,300 hPa / 17.7 to 38.4 inch Hg
Display	Graphic backlit LCD display; 32 x 22 mm / 1.3" x 0.9" (128 x 64 pixels)
LED	2-colour, to support display of results and warning messages
Audible signal	Signal tone to support display messages and warnings
Datalogger	Storage of last 500 tests with test numbers, date and time
Power supply	1 x CR123A-Battery, charge level indicator in display, with one battery up to 1,500 breath tests can be done.
Mouthpiece adaption	Improved Slide'n'click mouthpiece attachment; can be fitted for right or left orientation
Mouthpiece	Hygienically, individually packaged, with tamper-proof, tamperproof air outlet, mouthpiece ejector and spacer between mouth and instrument housing
Operating concept	Measurement functions can be performed using just one button; menu navigation is via two menu button
Calibration	Wet gas or dry gas calibration
Housing	Impact resistant ABS/PC
Dimensions (W x H x D), weight	Approx. 50/60 x 141 x 31 mm / 2"/2.4" x 5.6" x 1.2"; approx. 150 g / 0.33 lbs, incl. battery
Instrument configuration	Direct menu-guided configuration of instrument settings (PIN required) No additional PC software needed
Vibration and shock	EN 60068-2-27, EN 60068-2-6; EN 60068-2-64
CE marking	CE conform
Norm	EN 15964, NHTSA, FDA Conformity, depending on configuration
Internal clock	Warning or deactivation after end of service interval
Protection type	IP54
Bluetooth® (optional)	For the communication with the Dräger Mobile Printer BT

## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER ALCOTEST® 6000</b>			
	Dräger Alcotest® 6000 – USA		3706962
	Mouthpiece – Package with 100 pieces		6810690
	Mouthpiece – Package with 250 pieces		6810825
	Mouthpiece – Package with 1,000 pieces		6810830
	Mouthpiece with non return valve – Package with 100 pieces		6811055
	Mouthpiece with non return valve – Package with 250 pieces		6811060
	Mouthpiece with non return valve – Package with 1,000 pieces		6811065
	Protection bag, black		8324999
	Protection Bag yellow		8327811
	Battery		4543808

## ALCOHOL AND DRUG TESTING

## Dräger Alcotest® 6820 DOT

### Breathalyzer built for DOT applications

In workplaces regulated by the US Department of Transportation (DOT), sober employees are essential – both for public safety and for the company's reputation. The Dräger Alcotest® 6820 DOT provides fast and accurate alcohol test results. This reliable breathalyzer makes it easy to follow DOT breath test protocol and includes the most extensive training in the industry.



## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER ALCOTEST® 6820 DOT KIT</b>			
Dräger Alcotest® 6820 DOT KIT			4414141
Dräger Alcotest® 6820 DOT KIT w/ 34L Dry Gas			4414142
Dräger Alcotest® DOT KIT w/ 105L Dry Gas			4414143
Mouthpieces (box of 100)		1 / box	6810690
Mobile Printer for DOT Applications		1 / box	4415531
Printer Paper		1 / box	4415520
Tamper Tape		1 / box	4415509
Batteries		1 / box	4401006
Carrying Case		1 / box	4415529
Diagnostics Software		1 / box	4413078
USB cable for downloading data		1 / box	8319715
DOT Forms		1 / box	4401004
Non DOT Forms		1 / box	4401019
CAL /ACC Check		1 / box	4414158
Large Seal Adapter		1 / box	6809263
Regulator		1 / box	4507068
Dry Gas 34L 0.04 % BrAC Ethanol		1 / box	4401029

## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
Test method	Electrochemical Dräger sensor for 1/4" technology; alcohol-specific		
Test range	0 to 0.500 % BAC; display indication when exceeding test range		
Sampling	Standard: automatic sampling when minimum volume is reached Manual triggering of sampling possible		
Ready for use	Approx. 4 s after powering up		
Test result display	Approx. 3 s (with 0 %BAC), 10 s (at 0.105 %BAC, room temperature)		
Operating temperature	-5 to +50 °C; +23 to +122 °F		
Display	Graphic LCD display with background illumination; 1.61 in × 0.95 in (41 mm × 24 mm); 128 × 64 pixels		
LED	3 colors to indicate messages or alerts		
Acoustic alarms	Different signal tones indicate various messages and alerts		
Memory	Space for saving the last 1,900 tests with test number, date and time (ability to recall last 250 on device)		
Power supply	Two AA batteries or NiMH batteries, battery indicator on the display Around 1,500 breath tests can be conducted with one set of batteries Recharging of NiMH batteries is possible in device		
Calibration	Wet gas or dry gas calibration		
Dimensions (H x W x D)	5.79 in × 2.56 in × 1.53 in (147 mm × 65 mm × 39 mm)		
Weight	Approx. 0.57 lbs		
Device configuration	Device settings configurable directly via device menu (PIN required) No additional PC software required		
Vibration and impact	Meets EN 60068-2-6, EN 60068-2-27, EN 60068-2-64, MIL-STD 810F		
CE marking	Directive 89/336/EEC (electromagnetic compatibility)		
Data interfaces	USB to PC; optical interface for printer control		
Standard	Meets EN 64 and is listed on NHTSA CPL for Evidential Breath Testers		
Protection type	IP54; protection against dust and water		

## ALCOHOL AND DRUG TESTING

## Dräger Alcotest® 7000

### Alcohol breath device for mass screening

In workplaces regulated by the US Department of Transportation (DOT), sober employees are essential – both for public safety and for the company's reputation. The Dräger Alcotest® 6820 DOT provides fast and accurate alcohol test results. This reliable breathalyzer makes it easy to follow DOT breath test protocol and includes the most extensive training in the industry.





## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## TECHNICAL DATA

Detection basis	Electrochemical DrägerSensor®, 1/4" technology, alcohol-specific
Measurement range	Breath alcohol concentration: 0 to 0.63 % BrAC (Ethanol mass per minimum volume at 93 °F and 1,013 hPa) Visual signal when measuring limits are exceeded
Sample collection	Default: Automatic sample collection when minimum volume or predefined blowing time is reached; Passive sampling or manual triggering of sampling possible
Start-up time	Approx. 3 seconds after switching on (depending on configuration)
Display of test results	After approx. 3 seconds at 0.0 % BrAC After approx. 10 seconds at 0.1 %BrAC
Ambient operating conditions	+14°F to +131°F; 10 to 100 % relative humidity (non condensing); 600 to 1,300 hPa
Ambient conditions during storage	-4°F to +140°F; 15 to 75 % relative humidity (10 to 100% relative humidity <48 h); 600 to 1,300 hPa
Display	QVGA TFT color display 320 x 240 2.4 in
LEDs	Tricolor LEDs to help display results and warning messages
Acoustic signals	Various signal tones to support display and warning messages
Memory	Store the last 10,000 tests (software can be modified on request to offer even more storage space)
Energy supply	Lithium battery version (rechargeable via USB-C) or alkaline version (3 x 1.5 V alkaline or 3x NiMH or 3x lithium primary cell (Mignon, LR06, AA)). Charge status shown in display; one charge/battery change is sufficient for up to 5,000 breath tests (lithium version) or up to 1,500 breath tests (alkaline version).
Mouthpiece receptacle	The Slide 'n' Click mouthpiece or Alcotest® funnel mounts on either side
Mouthpiece	Hygienic, individually packaged with tamper-proof, non-closing air outlet Mouthpiece ejector and spacer between mouth and device housing
Funnel	Hygienic, individually packaged with air outlets for minimizing back-flow of expired air
Operating design	Measuring functions can be performed with one button; Navigation in menu with two menu buttons
Test for accuracy	Recommended interval of 12 months Wet gas or dry gas calibration;
Casing	Impact-resistant ASA/PC
Dimensions (W x H x D), Weight (including batteries)	2.4 in x 6.8 in x 1.4 in A7000 Li: 9.7 oz / A7000 AA: 10.1 oz
Vibration and impact resistance	EN 60068-2-27, EN 60068-2-6; EN 60068-2-64
CE mark	Electromagnetic compatibility
Standards	EN 15964, NHTSA, Australian Standard, FDA conformity, depending on configuration
Internal clock	Warning or switch-off after expiration of calibration period (depending on configuration)

## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
IP protection class	IP 54		
Interface	USB-C		
Bluetooth®	Bluetooth® Low Energy 5.0		
GPS	Optional		

## DRÄGER ALCOTEST® 7000

Dräger Alcotest® 7000 – Configuration tool			3700398
Dräger Alcotest® 7000 – Standard LE version	Testing Device with alkaline batteries, three mouthpieces, wrist strap, Bluetooth, USB C cable, calibration certificate, no GPS, no NFC.		3700400
Dräger Alcotest® 7000 charging cradle			3700420
Dräger Bluetooth mobile printer			3700421
Mouthpieces -- package of 100			6810690
Mouthpieces – package of 250			6810825
Mouthpieces – package of 1,000			6810830
Mouthpiece with one-way/non-return valve – package of 100			6811055
Mouthpiece with one-way/non-return valve – package of 250			6811060
Mouthpiece with one-way/non-return valve – package of 1,000			6811065
Hygienic flow funnel, package of 10; individually, hygienically packed			8327718
NiMH battery (AA, 1.2 V rechargeable) – 3 batteries required, batteries must be charged outside the unit			4401006
Lithium primary battery (AA, 1.5 V) – 3 batteries required			3700481

## ALCOHOL AND DRUG TESTING

## Dräger DrugTest 5000 Drug Testing Device

The Dräger DrugTest 5000 system is a fast, accurate means of testing oral fluid samples for drugs of abuse, such as amphetamines, designer amphetamines, opiates, cocaine and metabolites, benzodiazepines, cannabinoids, and methadone. The analyzer offers easy data management with the Dräger Diagnostics Software.

**FOR LAW ENFORCEMENT USE ONLY.**



## ALCOHOL AND DRUG TESTING

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER DRUGTEST 5000</b>			
Dräger DrugTest 5000 Analyzer including power supply, connecting cable and instructions for use.			8327900
<b>Consumables</b>			
Dräger DrugTest 5000 Test Kits - 20/Box (COC, OPI, BZO, THC, AMP, MET, MTD)		1 / box	8323636
Dräger DrugTest Surface Screening Kits - 20/Box		1 / box	8320490
<b>Accessories</b>			
Compact Keypad (PS/2, dimensions approx. 11.1" x 5.2" x 0.9") "QWERTY" English Keyboard Layout		1 / box	4415005
Car Cable 12 V (Connecting Cable from car socket/cigarette lighter to DrugTest 5000 Analyzer)		1 / box	8312166
Dräger Mobile Printer		1 / box	8319310
Thermal Paper for Dräger Mobile Printer (1 roll)		1 / box	4415520
Carrying Bag for Dräger DrugTest 5000 Analyzer		1 / box	8322675
USB Connection Cable for Communication with a PC		1 / box	4415001
PC Software Module for Dräger DrugTest 5000		1 / box	8319977

An optional carrying bag is available for the safe transportation of all system components. The keyboard enables information on the test subject and system operator to be entered, allowing a record of this data to be printed out on the spot along with the results.

## TECHNICAL DATA

Supply Voltage	12 V DC (11 to 15 V DC)
Current Consumption	Typically 3 A
Dimensions (W x H x D)	7.9" x 9.8" x 8.7"
Weight	9.9 lbs
Temperature	Operation: 5 to 40 °C (+41 to +104°F) Storage/Transportation: -20 to +60°C (-4 to +140°F)
Moisture Range	5 to 95%rh, non condensing
Interfaces	Optical IRDA (printer), PS/2, USB Slave
Duration of One Measurement	5 to 10 minutes, depending on type of test
Storage Capacity	500 data sets
Carrying Bag	For Mobile System

## WORKSHOP SOLUTION & BREATHING GAS SUPPLY

### TEST EQUIPMENT

Quaestor 6000	206
Quaestor 8000	209
Testor 2500	212
RZ 7000	215

### FILLING STATION FOR OXYGEN CYLINDERS

DOB 200 ECO	217
Oxygen Booster DOB-H	219

### CLEANING, DISINFECTING AND DRYING

Neutral Disinfectant Cleaner	221
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## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

## Dräger Quaestor 6000

### Test Equipment

All static and dynamic tests of the Dräger Quaestor 6000 take place semiautomatically as a sophisticated combination of personal handling and automated control during the test sequence. The software supports you with intuitive user guidance.



## WORKSHOP SOLUTION & BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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### TECHNICAL DATA

Dimensions with test head (W x H x D)	50 x 55 x 65 mm / 19.7 x 21.7 x 25.6 in
Weight (fully equipped with test head)	19.4 kg / 42.8 lb.
Permitted temperature (storage)	from -30 °C to 60 °C / -22 °F to 140 °F
Permitted temperature (operation)	from 0 °C to 40 °C / 32 °F to 104 °F
Permitted air pressure	800 to 1,200 hPa / 22.6 to 35.4 inHg
Permitted humidity	30 to 90 % rel. humidity
Compressed air supply	Buffer bottle or pipework 300 bar/4500 psi stainless steel pipe
Pressure sensor accuracy	Class ≤ 1.0 according to DIN EN 837
Pressure ranges	High pressure 0...350 bar / 0...5000 psi
	Medium pressure 0...25 bar / 0...300 psi
	Low pressure -40...+30 mbar
External cable connections	1 x USB interface to the PC
	1 x 24 V power adapter for 110/230 V power supply
Breathing frequency of the artificial lung	5 to 40 strokes/min
Maximum breathing volume	136 l/min
Tidal Volume	max. 3.4 l

## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER QUAESTOR 6000</b>			
Dräger Quaestor 6000 Standard NA	PC-supported semi-automatic test instrument for the testing of full-face masks, chemical protection suits and compressed air breathing apparatus		R63160
Optional accessories			
Filling nozzle cpl., Minimess® (f) – 8 mm			3717557
Minimess® hose 1.5 m (female-female)			37 17 558
For the version Minimess® hose 37 17 558 one of following HD adapters must be ordered additionally:			
HP adapter 4500 psi, Minimess (male) – CGA 347			3717565
HP adapter 300 bar, Minimess® (AG) – 8 mm			3717567
Dräger QSI-Box	Used for the sound insulation of the low pressure warning		R58382
Compressed air breathing apparatus holder	Used during the test to keep the compressed air breathing apparatus upright		3716663
Gauge holder	Used for the easy positioning of the pressure gauge or Dräger Sentinel on the test device		3719538
MP hose 500 mm extension	To extend the connection from the medium pressure inlet to the medium pressure hose of the compressed air breathing apparatus		R57999
2216 Module			R58368
4500 psi Outlet			3723208
2216 psi Outlet			3723207
Pressure Reducer			R57584
Transport Case			3712635
Barcode-labels 30 x 13mm (outside)			AG02395
Barcode-labels 30 x 13mm (inside)			AG02396
Barcode-labels 22 x 8mm (outside)			AG02551
Hose set CPS-Test (suit with 2 valves)			R61886
Hose set CPS-Test (suit with 1 valve)			R61887
Transponder reader			6559283
Minimess® is a trademark owned by Hydrotechnik GmbH.			



## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

## Dräger Quaestor 8000

### Test Equipment

All static and dynamic tests of the Dräger Quaestor 8000 are carried out fully automatically. Controlled by the proven Protector software, each test is carried out intuitively. For you, this guarantees high efficiency through comfort and speed.



## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## TECHNICAL DATA

Dimensions with test head (D x W x H)	50 x 55 x 65 cm / 19.7 x 21.7 x 25.6 in
Weight (fully equipped with test head)	21.75 kg / 48 lb
Permitted temperature (storage)	from -30 °C to 60 °C / -22 °F to 140 °F
Permitted temperature (operation)	from 0 °C to 40 °C / 32 °F to 104 °F
Permitted air pressure	800 to 1.200 hPa / 22.6 to 35.4 inHg
Permitted humidity	30 to 90 % rel. humidity
Compressed air supply	Buffer bottle or pipework 300 bar/4500 psi stainless steel pipe
Pressure sensor accuracy	Class ≤ 1.0 according to DIN EN 837
Pressure ranges	High pressure 0...350 bar / 0...5000 psi
	Medium pressure 0...25 bar / 0...300 psi
	Low pressure -40...+30 mbar
	Low pressure -70...+30 mbar (diving)
External cable connections	Flow O <sub>2</sub> for 1 – 3 l/min (CCBA)
	1 x USB interface to the PC
	1 x 24 V power adapter for 110/230 V power supply
Breathing frequency of the artificial lung	5 to 40 strokes/min
	136 l/min
Maximum breathing volume	max. 3.4 l
Tidal Volume	

## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
<b>DRÄGER QUAESTOR 8000</b>			
Dräger Quaestor 6000 Standard NA	PC-supported semi-automatic test instrument for the testing of full-face masks, chemical protection suits and compressed air breathing apparatus		R63160
Dräger Quaestor 8000 CCBA NA	PC-supported fully-automatic test instrument for the testing of full-face masks, chemical protection suits, compressed air breathing apparatus and closed circuit breathing apparatus		R63290
Optional accessories			
Filling nozzle cpl., Minimesse® (f) – 8 mm			3717557
Minimesse® hose 1.5 m (female-female)			3717558
For the version Minimesse® hose 3717558 one of following HP adapters must be ordered additionally:			
HP adapter 4500 psi, Minimesse (male) – CGA 347			3717565
HP adapter 300 bar, Minimesse® (AG) – 8 mm			3717567
Dräger QSI-Box	Used for the sound insulation of the low pressure warning		R58382
Compressed air breathing apparatus holder	Used to position the compressed air breathing apparatus upright during the test		3716663
Hose set CPS test (suits with 2 valves)			R61888
Hose set CPS test (suits with 1 valve)			R61889
Barcode-label 30 x 13mm (outside)			AG02395
Barcode-label 30 x 13mm (inside)			AG02396
Barcode-label 22 x 8mm (outside)			AG02551
Transponder reader			6559283
Minimesse® is a trademark owned by Hydrotechnik GmbH.			
2216 Module			R58368
4500 psi Outlet			3723208
2216 psi Outlet			3723207
Pressure Reducer			R57584

## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

## Dräger Testor 2500 Test Equipment

The Dräger Testor 2500 is a compact, versatile test unit for the static tests of your breathing protection equipment. Testing is reliable, easy, and convenient. The compact design enables it to be integrated smoothly into any breathing protection workshop.



## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## TECHNICAL DATA

Dimensions (W x H x D)	300 x 515 x 335 mm / 11.8 x 20.3 x 13.2 in
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Weight Dräger Testor 2500	5.5 kg / 12 lb. 2 oz.
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## Environmental operating conditions

Temperature	+10 to 40 °C / 50 to 104 °F
Air pressure	850 mbar to 1,400 mbar
Rel. humidity	max. 70 %

Compressed air supply	4 to 10 bar / 58 to 145 psi
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## Medium-pressure manometer

Measurement range	0 to 10 bar / 0 to 145 psi
Scale division	0.5 bar
Measurement precision	1.6% from end value

## Low-pressure manometer

Measurement range	-15 / 0 / +25 mbar
Scale division	0.5 mbar
Measurement precision	1.0% from end value

## Timer

Display	LCD
Pre-selected measuring time	1 s to 99 min

## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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**DRÄGER TESTOR 2500**

Dräger Testor 2500	Consisting of: Basic device, 4500 PSI test gauge, LDV test kit, IFU		R62960
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**Accessories**

Workbench fixture			R62968
R 62 968	(for LDV)		R62954
Outside barcode labels, small 22 x 8 mm, 500 per roll	(for outside adhesion, e.g. on housing)		AG02551
Inside barcode labels, large 30 x 13 mm, 500 per roll	(for inside adhesion, e.g. in mask glass)		AG02396
Outside barcode labels, large 30 x 13 mm, 500 per roll	(for outside adhesion, e.g. on housing)		AG02395
CPS set for suits with one valve			R61887
CPS set for suits with two valves			R61886
MP hose 39 in. extension			R61898
MP hose 20 in. extension			R57999
Bag for test device			R63099

## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

## Dräger RZ 7000

### Test Equipment

Easy to use: With the Dräger RZ 7000 you can carry out the function and leak tests of the Dräger PSS® BG 4 plus easier and faster than ever before.



## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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## TECHNICAL DATA

30 mbar to -30 mbar	20 x 22 x 26 in (50 x 55 x 65 cm)		
Measurement precision	1% of end value		
Measurement range for volume flow	0,5 L/min to 4 L/min		
Measurement precision	5% of measurement precision		
Internal test volume	500 ml		
Supply voltage	100 – 240 V (50 – 60 Hz)		
Car charger	12 V		
Battery	Lithium ion		
Degree of protection	IP54 (with locked lid)		
Weight	8.3 kg / 18.3 lbs (incl. power supply unit w/o IFU)		
Dimensions	W x H x D: 470 x 357 x 176 mm / 1ft 7in x 1ft 2in x 0ft 7in		
Scope of supply	Power supply unit, instruction for us		

## DRÄGER RZ 7000

Dräger RZ 7000		R62500
Accessories for testing		
Adapter for testing face masks and individual components R62599		R62599
Adapter for sealing face mask R53345		R53345
USB cable 83 18 469		8318469
Car charger cable 83 20 252		8320252
Test head R50572		R50572
Bench mounting fixture R62561		R62561
Dräger Protector Software 83 21 598		8321598
PSS® BG 4 plus test-kit R33777		R33777

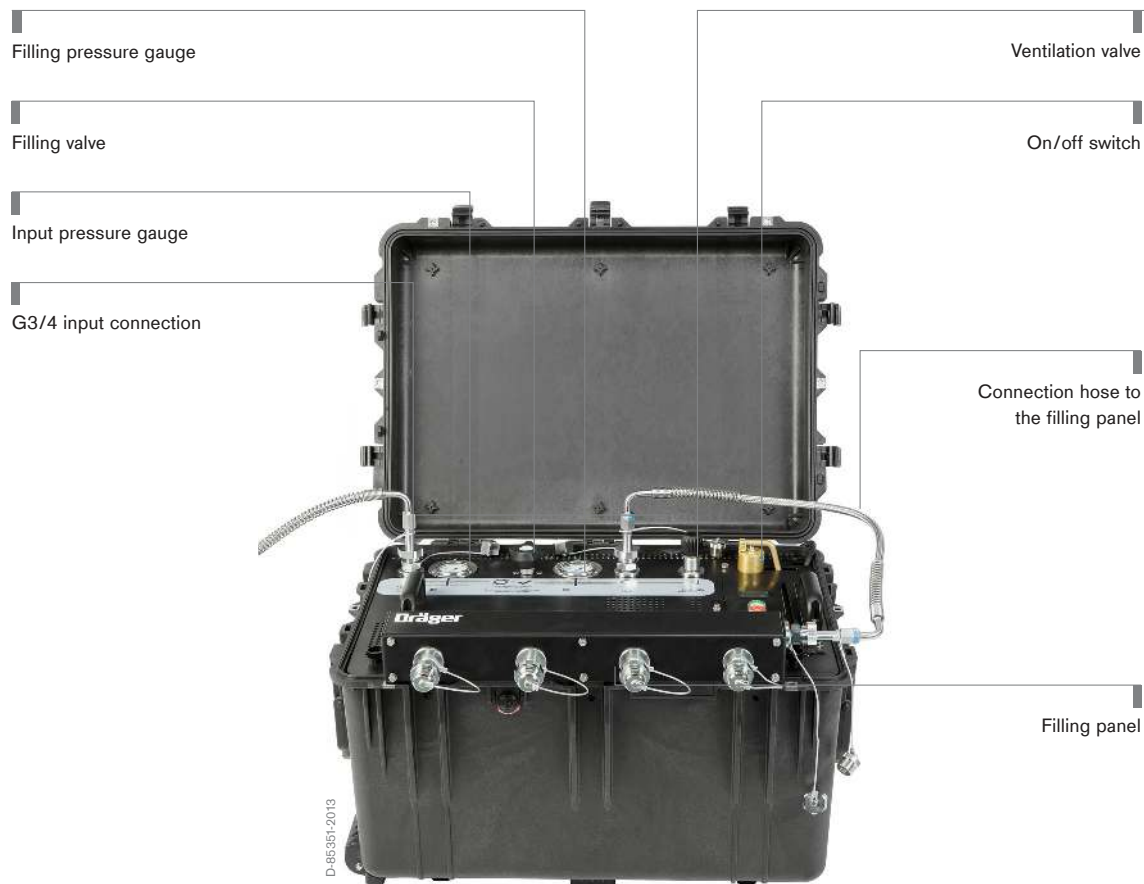


## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

## Dräger DOB 200 ECO

### Filling station for oxygen cylinders

Discover the Dräger DOB 200 ECO: A highly mobile, efficient filling station for all common oxygen cylinders. Its compact design with rolling wheels makes it easy to transport, while the robust housing protects contents from damage. The simple and automated filling procedure saves both time and effort.



## WORKSHOP SOLUTION & BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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### TECHNICAL DATA

Weight (incl. filling panel)	78 kg / 172 lb (Type B)
Dimensions (W x H x D)	800 x 581 x 482 mm / 31.5 x 22.9 x 19.0 inches
Operation noise	72.5 dB (average)
Max. operating pressure (Type B)	241 +5 bar / 3,500 +72.5 psi
Temperature range	-15 °C to +40 °C / +5 °F to +104 °F
Connections	G3/4 external thread
Supply performance	min. 70 NI/min
Medium	O <sub>2</sub> or with O <sub>2</sub> enriched breathing air
Power supply (Type B) Motor variant 4	115 V / ~ 60 Hz

### DRÄGER OXYGEN BOOSTER (DOB) 200 ECO

DOB 200 ECO CA/US		6923190
Filling panels	G3/4a-CGA540i(4x)	6905281
	G3/4a-W21.8xi(4x)	6905282
	G3/4a-CGA540i(6x)	6924948
	G3/4a-W21.8xi(6x)	6924949
Supply Hoses	1.5 m / CGA540 female – G3/4 female	6568198
	1.5 m / W21,8 female – G3/4 female	6568201
	3 m / CGA540 female – G3/4 female	6568255
	3 m / W21,8 female – G3/4 female	6568202
	5 m CGA540i-G3/4i	6568200
	5 m W21,8xi-G3/4i	6568203

Supply hoses with other connections are available upon request.

#### Connection hose to the filling panel

Hose O2 PS 220	0,7 m G3/4i-G3/4i	6904969
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A complete system requires: DOB ECO 200, Filling Panel, Supply hose and Connection hose.

#### Spare parts

Spare part set	DOB 200 ECO 2 y	6905297
Spare part set	DOB 200 ECO 5 y	6905298

## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

## Dräger Oxygen Booster DOB-H Oxygen Filling Pump

Small, sturdy and effective: the mobile Dräger Oxygen Booster DOB-H, a single-stage, dual-action piston pump, is indispensable in all situations where high-pressure oxygen is needed in apparatus cylinders but no power source is available.



## WORKSHOP SOLUTION & BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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### TECHNICAL DATA

Nominal pressure (psi / bar)	2900 / 200 + 10 %		
Max. operating pressure (psi / bar)	3190 / 220 positive pressure		
Drive	Manually operated		
Pump	Dry run double plunger compressor		
Filling connection	Standard connection acc. to DIN 477 G 3/4 for oxygen		
Weight (lb / kg)	approx. 110 / 50		
Dimensions of container (L x W x H in in)	DOB-HT 200 approx. 34 x 22 x 13		

### DRÄGER OXYGEN BOOSTER DOB-H

Oxygen Booster DOB-HT 200 (portable, G 3/4, PN 200 bar) Incl. plastic case and high pressure hose (PN: 6531046)	6531300
High pressure hose, 0.3 m-G 3/4	6531049
High pressure hose, 1.5 m-G 3/4	6531046
High pressure multiple port hose 0.3 m-G 3/4	6531063
Tool Bag, Complete	6530986
Spare set DOB H 5 y	6598774

## WORKSHOP SOLUTION &amp; BREATHING GAS SUPPLY

## Neutral Disinfectant Cleaner Cleaning, Disinfecting and Drying

A multipurpose, neutral pH, disinfectant detergent and deodorant approved by Dräger for use with our FPS® and PSS® products.

Neutral pH

Fungicidal and mildew resistant

D-11915-2016



Disinfects, cleans and deodorizes

Highly concentrated

## WORKSHOP SOLUTION & BREATHING GAS SUPPLY

PRODUCT	DESCRIPTION	PACKAGING UNIT/TYPE	ORDER NO.
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### TECHNICAL DATA

Volume	9.46L (2.5 gallons)		
Dimensions without hand pump (L x W x H)	29.21 cm x 13.97 cm x 30.48 cm (11.5" x 5.5" x 12")		
Dimensions with hand pump (L x W x H)	34.29 cm x 13.97 cm x 43.18 cm (13.5" x 5.5" x 17")		
Storage Temperature	0 C to 50 C (32 F to 122 F)		
Product dilution information:	Up to 2 oz/gal or 15.6 mL/L in water		
DIN	02342820		

Neutral Disinfectant Clean-CAN, 9.46L			4000015
Hand pump for Neutral Disinfectant Cleaner-CAN (Reusable). Maximum Order of 3			4000020

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## DRÄGER - YOUR RIGHT PARTNER

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### PROTECTION THAT GOES BEYOND YOUR MASK



Dräger is synonymous with professional respiratory protection world-wide. We not only offer a complete range of compatible air purifying respiratory protection products but are your partner when it comes to questions regarding occupational safety and health.

Dräger is always the right partner – not only when it comes to masks, filters, compressed airline systems, self-contained breathing apparatuses and escape devices, but also a world-wide sales and service network – Dräger is able to offer you the most extensive support available.

This includes support in service, maintenance, repair and cleaning of the Dräger products as well as the speedy supply of spare parts – no matter where you are. In addition, the Dräger Safety Academy offers an extensive training program. Competent advice for the correct use of filters or for the selection of a suitable respiratory protection is certainly also part of our comprehensive service portfolio.

Our high demands on quality and service as well as the alignment with the needs of our customers result in durable products for your daily working routine. Pursuant to this our long-term product concepts guarantee reliable fulfilment of demands and spare parts supply in the future.

All this makes Dräger a reliable partner of the industry in every respect. On your request we develop comprehensive safety concepts and solutions far beyond the individual products. This can also include financing solutions, as leasing and financing are a part of our service portfolio. This is a part of our integral service concept.

**Did you expect anything less from Dräger?**



## TERMS AND CONDITIONS

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### 1. Scope of Application, General

- 1.1 Any delivery of goods and provision of services (hereinafter collectively "Goods") by Dräger\* to the Customer, with the exception of construction works shall be subject to these General Terms and Conditions ("GTC") set forth herein. These GTC form a constituent part of all offers, orders and agreements between Dräger and the Customer.
- 1.2 Deviating terms and conditions - unless agreed to in writing - do not apply. Dräger and the Customer may agree to terms and conditions deviating from these GTC, such terms shall then have priority over these GTC. These GTC apply even if Dräger provides the Goods with knowledge but without actual acceptance of deviating terms and conditions of the Customer.
- 1.3 Dräger provides construction works in accordance with the German Standard Building Contract Terms, Part B (Verdingungsordnung für Bauleistungen, Teil B - "VOB/B"). The VOB/B shall be supplemented in a subordinate manner by Sections 2.2, 3, 4, 6 and 11 to 13 of these GTC.

### 2. Scope of Performance

- 2.1 Offers by Dräger shall always be non-binding. Orders shall be deemed accepted only if Dräger confirms same or carries out the order.
- 2.2 The offer by Dräger shall govern the scope of performance. Statements as to weight and measurements in brochures and offers are according to best knowledge but are not guaranteed properties (Beschaffenheitsgarantie). The right to reasonable performance and construction modifications is reserved. The functions of software shall be limited to the description in the performance specifications. To the extent reasonably acceptable to the Customer Dräger may use components that are as good as new or that have been rendered as good as new.

- 2.3 Technical norms serve as performance specification only, provided Dräger does not expressly provide a guarantee in the form of a full guarantee for compliance with such technical norm. Guarantees as to properties (Beschaffenheitsgarantie) or shelf life (Haltbarkeitsgarantie) must be in writing.
- 2.4 Dräger shall retain, without limitation, any and all ownership rights, copyrights and industrial property rights in drawings, technical documents and other data, information and documentation in material or immaterial form, including in electronic form; these may not be disclosed to third parties without written consent.
- 2.5 In case of resale of Goods the Customer is responsible to comply with all applicable export rules and regulations. The Customer shall defend and indemnify Dräger from all costs and claims based on the violation of export rules and regulations by the Customer."

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