# Product Catalog 2024
# for Industrial Applications

Dräger

Technology for Life

# Sections


Air Purifying Respirators 01

Self Contained Breathing Apparatus 02

Emergency Escape 03

Portable Gas Detection 04

Dräger-Tubes® 05

Alcohol and Drug Testing 06

Workshop Solution & Breathing Gas Supply 07

Social Media and Partner Information


**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

## Professional respiratory protection since 1889

**Regardless of your industrial application, wether 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

## 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.

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**
Selecting the appropriate respiratory protection 6
Dräger X-plore® product family 8

**Disposable particulate respirators**
Dräger X-plore® 1300 9
Dräger X-plore® 1700 11
Dräger X-plore® 1900 13

**Half masks**
Dräger X-plore® 3300 15
Dräger X-plore® 3500 17

**Full face masks**
Dräger X-plore® 5500 19
Dräger X-plore® Bayonet Filters 21
Dräger X-plore® 6300 24
Dräger X-plore® 6530 26
Dräger X-plore® 6570 28
Dräger CDR 4500 30
Dräger X-plore® Rd40 Filters 32

**Powered Air-Purifying Respirator**
Dräger X-plore® 8000 34

**Headpieces**
Dräger X-plore® 8000 headpieces 37

**Helmets**
Dräger X-plore® 8000 Helmets 40

01

# Air Purifying Respirators

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## 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). 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.

01

# Air Purifying Respirators

**Mask Selection**
Select mask type based on its Maximum Use Concentration (MUC = APF x 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.

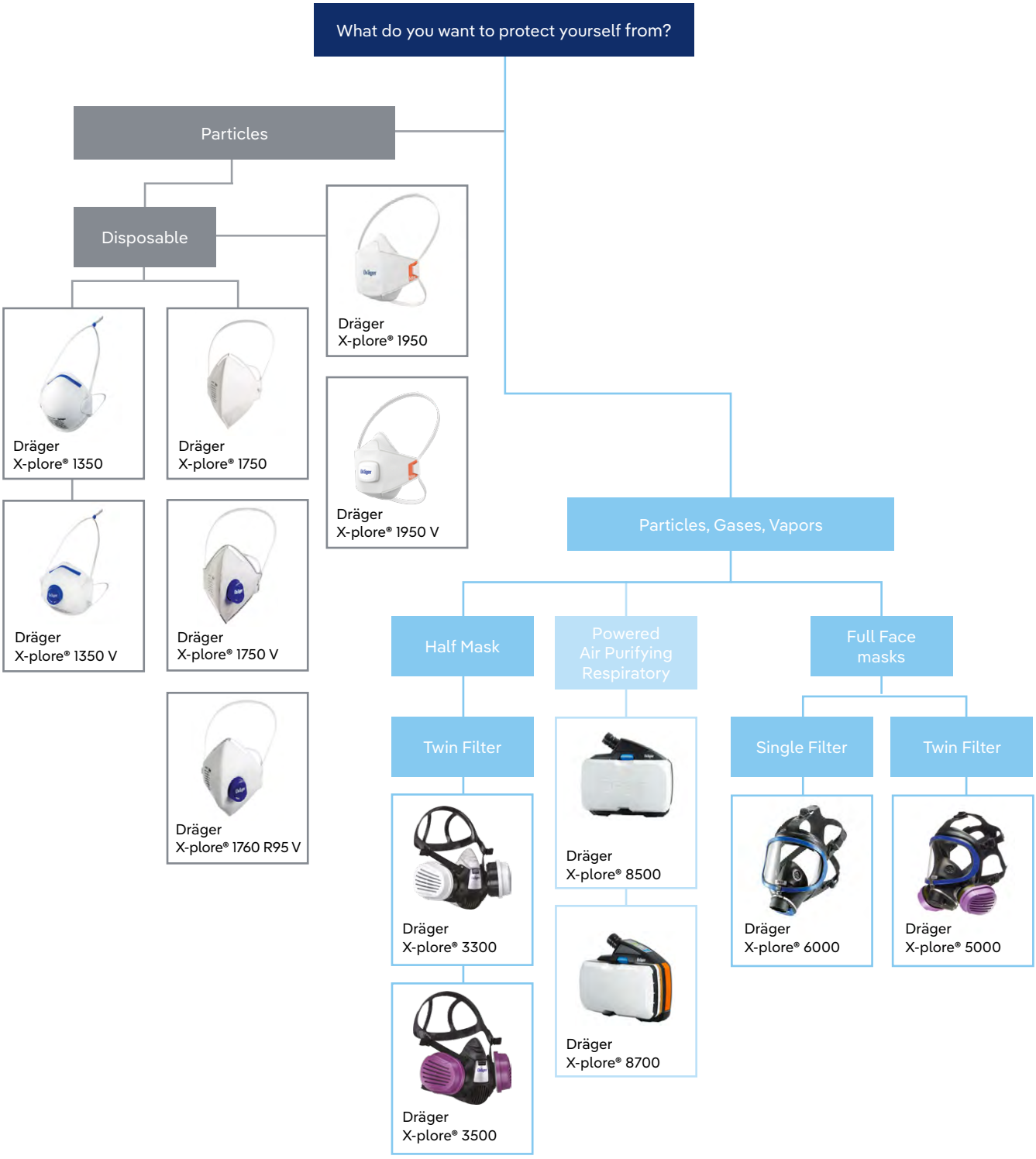
Use the Dräger Air Filters app to search a database of particulates, gases and other substances to find the appropriate air filter. Selecting between Mask or PAPR filters, limits the resulting filter types. Choosing a filter from the results will displays the filter name, image and part number for a convenient reference.

**Scan here to download.**

01

# Air Purifying Respirators

## The Dräger X-plore® Product Family



# 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.

01

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## Dräger X-plore® 1300 NIOSH Particle Respirator

1

2

3

| 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;<br>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. |

# 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.

ST-8662-2007

**Hygienic individual packaging**

Each face piece 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)**

Breath 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.

01

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## Dräger X-plore® 1700 Particle Filtering Face Piece

1

2

3

| Dräger X-plore® 1700 | | | |
|---|---|---|---|
| 1. Dräger X-plore® 1750 | N95 rating | 20 / box | 3951329 |
| 2. Dräger X-plore® 1750 V | N95 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 with valve | TC-84A-4556 |
| N95 Made in USA TC-84A-9053 | | |

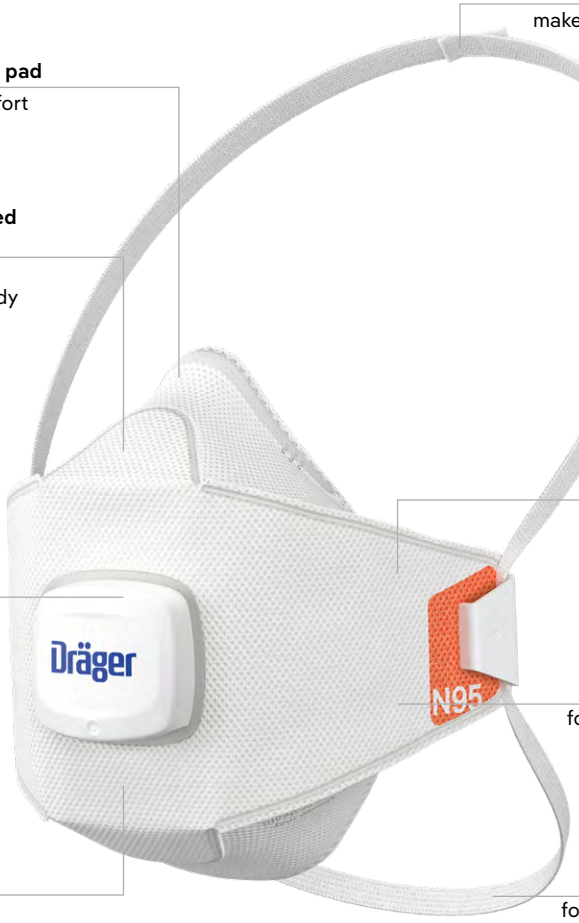
# Dräger X-plore® 1900 NIOSH
# Particle Filtering Face Piece

Dräger X-plore® 1900 is a high-performance, single-use particulate respirator for protection against fine dust and particles. The premium particle filtering face piece is available in two sizes, combining ease of use, exceptional comfort and optimal fit. This individually packaged flat fold respirator fits a wide range of face shapes and sizes.

**Tear-resistant VarioFLEX head straps**
make the mask easy to put on and take off and comfortable to wear and prevents hair entanglement

**Flexible nose clip and soft nose pad**
for a secure seal without discomfort

**SmartFOLD design with patented double reinforcement**
provides increased breathing space and a sturdy respirator body




**Soft inner lining made from gentle, moisture-resistant material**
for long-lasting comfort

**CoolMAX exhalation valve (optional)**
effectively releases humid and warm exhaled air to the outside

**Three-part folding design**
for optimal adjustment to the face and stable positioning of the respirator

**CoolSAFE filter material**
for high filtration eiciency and low breathing resistance

**Two sizes (S and M/L)**
for an optimal it for virtually every face. This lat fold respirator is available in two versions; with valve and with out valve. Individually packaged.

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger X-plore® 1950** | | | |
| Dräger X-plore® 1950 | | | |
| Dräger X-plore® 1950 M/L | N95 rating | 20 / box | 3951950 |
| Dräger X-plore® 1950 S | N95 rating | 20 / box | 3951951 |
| Dräger X-plore® 1950 V M/L | N95 rating | 10 / box | 3951955 |
| Dräger X-plore® 1950 VS | N95 rating | 10 / box | 3951956 |

V = versions with CoolMAX exhalation valve

Sizes: M/L = medium/large; S = small

## Technical Data

| | | |
|---|---|---|
| Approvals | All versions are approved according to NIOSH 42 CFR Part 84. | Protection class: N95 |
| Materials* | Filter material CoolSAFE | Polypropylene |
| | VarioFLEX head straps | Polyester + elastane |
| | Holder for straps | Polypropylene |
| | CoolMAX valve: Housing / valve disc | Polypropylene / Isoprene |
| | Nose clip (integrated) | Tinplate (aluminum-free) |
| | Nose pad | synthetic foam |
| | *All components are latex-free | |
| Color | | white |
| Dimensions (length x width x height in mm) | X-plore® 1950 | 215 x 80 x 10 |
| | X-plore® 1950 V | 215 x 80 x 23 |
| Weight (in g) | X-plore® 1950 | 11.3 |
| | X-plore® 1950 V | 15.1 |
| Country of origin | Sweden | |

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

## Technical Data

| | |
|---|---|
| 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 |
| Maintenance | Spare parts available for Dräger X-plore® 3500 |
| Extras | Resealable storage bag |

# 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 connectorn**

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

01

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## 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 |

| | | | |
|---|---|---|---|
| OHD Quantifit Fit Test Adapters | | 1 / box | 4057023 |
| Portacount Fit Test Adapter Set | | 1 / box | 6738979 |
| Half mask Carrying bag | | 1 / box | 4055649 |

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 |
| Maintenance | Spare parts available for Dräger X-plore® 3500 |
| Extras | Drop-down harness system and resealable storage bag (with Dräger X-plore® 3500) |

# 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

ST-948-2008

**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

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## 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 Carry Bag, Blue, Draw String | | 1 / box | 4053847 |
| 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® filter series offers an extensive range of particle, gas & 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 42 CFR 84 |
| Maintenance | Spare parts available |

# Dräger X-plore® Bayonet Filters
## Filter

Experience a new dimension of comfort and safety in respiratory protection: the Dräger X-plore® Twin filter 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.

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger X-plore® Bayonet Filters** | | | |
| **Particle Filters** | | | |
| Pad N95 | | 20 pcs = 10 pairs | 6738020 |
| Pad R95 | | 20 pcs = 10 pairs | 6738021 |
| P100 | | 22 pcs = 11 pairs | 6740830 |
| Pure P100 | | 20 pcs = 10 pairs | 6738350 |
| Pure P100 Odor | | 20 pcs = 10 pairs | 6738392 |
| **Gas Filters** | | | |
| OV | | 14 pcs = 7 pairs | 6738034 |
| AM/MA | | 14 pcs = 7 pairs | 6738027 |
| OV/AG/HF/FM/CD | | 14 pcs = 7 pairs | 6738025 |
| OV/AG/HF/FM/CD/AM/MA/HS | | 14 pcs = 7 pairs | 6738351 |
| **Combination Cartridges** | | | |
| OV/P100 | | 14 pcs = 7 pairs | 6738034 |
| AM/MA/P100 | | 14 pcs = 7 pairs | 6738037 |
| OV/AG/HF/FM/CD/P100 | | 14 pcs = 7 pairs | 6738035 |
| OV/AG/HF/FM/CD/AM/MA/HS/P100 | | 14 pcs = 7 pairs | 6738361 |
| **Accessories** | | | |
| Pad Retainer (for use with pads) | | 12 pcs | 6738038 |
| Pad Base (for use with pads) | | 12 pcs | 6738039 |
| Pure Adapter (for use with gas cartridges to combine with Pure filters) | | 10 pcs | 6738356 |

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# 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 | Multi-Gas and Vapor |
| | 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 |

# 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. |
|---|---|---|---|

## 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 | NIOSH 42 CFR 84 |

# 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.

01

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger 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 | NIOSH 42 CFR 84 |

# 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.

ST-7501-2005

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## Dräger 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 | NIOSH 42 CFR 84 |

# 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.

**Large visor (180° angle)**
- Optimal view during work
- Made from Polycarbonate with anti-scratch coating

**Robust connection**
- Offers compatibility and secure applicaton with CBRN Cap 1 canister

**5-point harness**

Simple donning and doffing without trapping any hair

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

ST-1278-2004

# Air Purifying Respirators

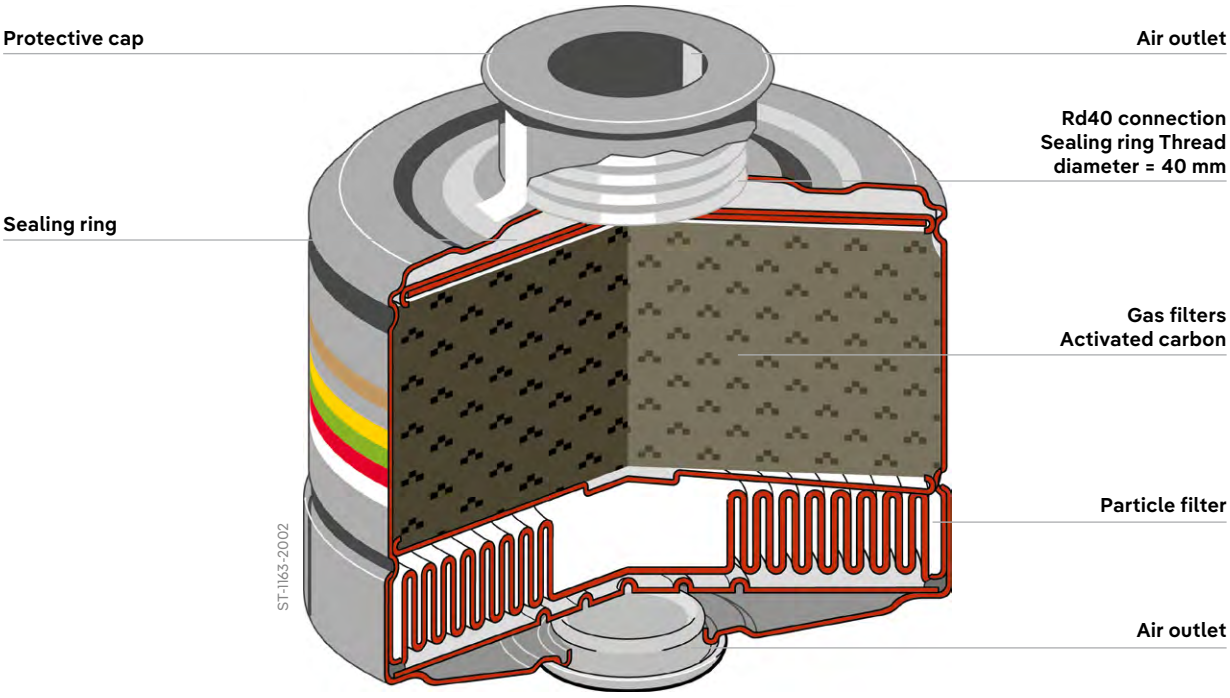
| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger CDR 4500 Series Single Filter Mask** | | | |
| **Dräger CDR 4500** | | | |
| Dräger CDR 4500 (black) | | 1 / box | R55440 |
| Dräger CDR 4500 (black steel lens frame), small | | 1 / box | R55575 |
| Dräger CDR 4500 (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 diaphrag | 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 |

# 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. |
|---|---|---|---|
| **Dräger X-plore® RD40 Filters** | | | |
| 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 |

# Dräger X-plore® 8000
## Powered Air-Purifying Respirator (PAPR)

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 workers need to focus on the task at hand.

D-118978-2013

**Intelligent Electronics**

Two-level alarm. Automatic flow check and calibration.

**Lithium-ion technology**

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

**Robust Design**

Shock absorbing design. Rated for 10,000 hours of use. IP65 protection.

**Filter recognition**

Advanced sensor technology recognises the correct filter and displays particle filter life

**Hose identification**

Automatic adjustment of minimum flow rate for attached headpiece

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# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger X-plore® 8000 PAPR** | | | |
| Blower unit | Dräger X-plore® 8500 (IP) | 1 / box | R59500 |
| | Dräger X-Plore 8700 (EX) | 1 / box | R59550 |
| | Dräger X-plore® 8000 High-capacity battery | 1 / box | R59585 |
| | Dräger X-Plore 8000 High-capacity battery (EX) | 1 / box | R59595 |
| Charger | Dräger X-plore® 8000 Standard charger | 1 / box | R59780 |
| Carrying systems | Dräger X-plore® 8000 Standard belt | 1 / box | R59700 |
| | Belt extension for X-plore® 8000 Standard belt | 1 / box | R59750 |
| | Dräger X-plore® 8000 Comfort pad | 1 / box | R59730 |
| | Dräger X-plore® 8000 Decon belt | 1 / box | R59710 |
| | Belt extension for Dräger X-plore® 8000 Decon belt | 1 / box | R59760 |
| | Dräger X-plore® 8000 Welding belt | 1 / box | R59720 |
| | Dräger X-plore® 8000 Shoulder Harness | 1 / box | R59740 |
| **Breathing hoses** | | | |
| Standard hoses | Dräger X-plore® 8000 Standard hose (for Tight-fitting headpieces) | 1 / box | R59630 |
| | Dräger X-plore® 8000 Standard hose (for Helmets and Hoods) | 1 / box | R59620 |
| Flexible hoses | Dräger X-plore® 8000 Flexible hose (for Tight-fitting headpieces) | 1 / box | R59610 |
| | Dräger X-plore® 8000 hose (for Helmets and Hoods) | 1 / box | R59600 |
| **Filter** | | | |
| 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 MultiGas (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 MultiGas HE (CL/HF/AM/MA/FM/HS/SD/HC/HE) | 1 / box | 6739570 |

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Accessories** | | | |
| Dräger X-Plore 8000 Blower cover pouch | | 1 / box | R59880 |
| Dräger X-plore® 8000 Hose cover, disposable | | 1 / box | R59670 |
| Dräger X-plore® 8000 Hose cover, spark proof | | 1 / box | R59660 |
| Please adhere to the instructions for use to ensure the required safety precautions for specific applications fulfilled. | | | |
| Hoods | See separate product information sheet: Dräger X-plore® 8000 Hoods | | |
| Helmets | See separate product information sheet: Dräger X-plore® 8000 Helmets and Headpieces | | |

## Technical Data

| | |
|---|---|
| Approvals | NIOSH 42 CFR 84 with Dräger X-plore 8000® hoods, helmets, X-plore® 6000 and FPS 7000 full-face masks |
| | CSA Certification (X-plore 8700 only) *<br>Ex ib IIB T4 Gb<br>Ex ib IIIB 135°C Db<br>Class I, Zone 1, AEx ib IIB t4 Gb<br>Zone 21, AEx ib IIIB 135°C Db |
| 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: Full-face mask: 115, 130 or 145 l/min Hoods and Helmets: 170, 190 or 210 l/min |
| Battery technology | Lithium-ions: 10.8 V/6.8 Ah (high-capacity battery) |
| Operating time** | High-capacity battery: 8 to 20 hours |
| Charging time | In 4 hours (in 2 hours 80% can be reached) |
| Weight | Dräger X-plore® 8500 incl. standard battery and splash guard lid: approx. 3 lbs<br>Dräger X-plore® 8700 incl. standard battery (EX) and splash guard lid: approx. 3.3 lbs |
| Alarm system | Optical alarm (operating display) Acoustical alarm ≥ 80 dB(A) at 3.3 ft. Vibration alarm |
| Belt length | Adjustable between 27.5 in. and 55. in. (standard and decontamination version) |
| Belt extension | 13.8 in. (35 cm) (standard and decontamination version) |

* Standard long hoods, disposable hose cover and welding visor must not be used in potentially explosive atmospheres.
** Depending on the adjusted flow and the concentration of contaminants

# 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

D-119009-2013

**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

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## 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 |

| 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 |

X-plore is a trademark of Dräger.

01

# Air Purifying Respirators

## Technical Data

| Dräger hoods | |
|---|---|
| Approval – respiratory protection | NIOSH 42 CFR Part 84 |
| Hood material | Standard hoods: PP/PE<br>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)<br>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)<br>Short hoods, premium: approximately 7.0 oz. (200 g)<br>Long hoods, standard: approximately 7.2 oz. (205 g)<br>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 |

| Dräger full-face masks | |
|---|---|
| Approval | NIOSH 42 CFR Part 84 |
| 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 |

# Dräger X-plore® 8000 helmets
## Head pieces for PAPR and airline systems

The Dräger X-plore® 8000 headpieces offer integrated respiratory protection which can be combined with various components and accessories to provide protection for head, eye, face and ears. With our portfolio of helmets, bump cap and hoods the X-plore® 8000 system can be customized to best fit your application and provide the safety and comfort needed.

**Adjustable air outlet**
To direct airflow for personal level of comfort

**Optimal comfort**
The helmet has three components to provide safety: outer shell, foam padding and inner liner. The design offers even weight distribution.

**comfort field of view**
Large panoramic visor allows larger viewing area and better peripheral vision. Anti-fog and anti-scratch coating ensures durability.

**Flip up visor**
Allows user to open the front of the helmet when required

**Customised fit**
The head suspension ratchet can be tightened for snug fit

**Headpiece attachments**
Several attachments to choose from to provide the required level of protection

**Guided air**
Even airflow inside head pieces offers comfort and avoids fatigue

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger X-plore® 8000 Headpieces** | | | |
| Dräger X-plore® 8000 Helmet PC visor L1Z | | | 3710775 |
| Dräger X-plore® 8000 Helmet PC visor L2Z | | | 3710780 |
| Dräger X-plore® 8000 Helmet PC visor L3Z | | | 3710785 |
| Dräger X-plore® 8000 Helmet PC visor L2T2 | | | 3710790 |
| Dräger X-plore® 8000 Helmet PC visor L3T4 | | | 3710795 |
| Dräger X-plore® 8000 Helmet for hood | | | 3710800 |
| Dräger X-plore® 8000 Bump cap for hood | | | 3710805 |
| Accessories | | | |
| Dräger X-plore® 8000 Hood for helmet, T4 | | | 3710774 |
| Dräger X-plore® 8000 Hood for helmet, T2 | | | 3710776 |
| Dräger X-plore® 8000 Earmuffs | | | 3710777 |
| Protective foil Dräger X-plore® 8000 Hood for helmet | | | 3710778 |
| Protective foil Dräger X-plore® 8000 Helmet with visor | | | 3710779 |
| Spare parts | | | |
| Dräger X-plore® 8000 Helmet seal L1Z | | | 3710781 |
| Dräger X-plore® 8000 Helmet seal L2Z | | | 3710782 |
| Dräger X-plore® 8000 Helmet seal L3Z | | | 3710783 |
| Dräger X-plore® 8000 Helmet seal L2T2 | | | 3710784 |
| Dräger X-plore® 8000 Helmet seal L3T4 | | | 3710786 |
| Dräger X-plore® 8000 PC visor for helmet | | | 3710787 |
| Dräger X-plore® 8000 Rigid foam shell | | | 3710788 |
| Dräger X-plore® 8000 Sweat pad for helmets | | | 3710789 |
| Dräger X-plore® 8000 Comfort padding | | | 3710791 |
| Dräger X-plore® 8000 Assembly clips hood for helmet | | | 3710792 |
| Dräger X-plore® 8000 Visor frame for helmet | | | 3710793 |
| Dräger X-plore® 8000 Sealing for helmet with visor | | | 3710794 |
| Dräger X-plore® 8000 Head harness for helmets | | | 3710796 |
| Dräger X-plore® 8000 Assembly clips for earmuffs | | | 3710797 |

# Air Purifying Respirators

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## Technical Data

| Model | Dräger X-plore® 8000 Helmet with visor | | Dräger X-plore® 8000 Helmet-/ Bump-Cap-Hood-Combination | |
|---|---|---|---|---|
| | Zytec® | Tychem® | Helmet-Hood-Combination | Bump-Cap-Hood-Combination |
| Length - Helmet seal | Short (L1Z), middle (L2Z), long (L3Z) | Middle (L2T2), long (L2T4) | Long | Long |
| Material - Helmet seal | Zytec® FR | Tychem® 2000 / Tychem® 4000 | Tychem® 2000 / Tychem® 4000 | Tychem® 2000 / Tychem® 4000 |
| Material - Visor | PC | PC | PETG | PETG |
| Material - Helmet | PA | PA | PA | PA |
| Material - Visor frame | ABS | ABS | ABS | ABS |
| Material - Comfort padding | Foam material (EVA) with Lycra | Foam material (EVA) with Lycra | Foam material (EVA) with Lycra | Foam material (EVA) with Lycra |
| Material - Rigid foam shell | PS | PS | PS | PS |
| Visor size | 10.2" x 6.6" | 10.2" x 6.6" | 11.8" x 9" | 11.8" x 9" |
| Temperature range (operation) | 23 °F to 122 °F | 23 °F to 122 °F | 23 °F to 122 °F | 23 °F to 122 °F |
| Head harness | Ratchet, adjustable (8.3" – 9.4") | Ratchet, adjustable (8.3" – 9.4") | Ratchet, adjustable (8.3" – 9.4") | Ratchet, adjustable (8.3" – 9.4") |
| Air inlet | Hose connector at the back | Hose connector at the back | Hose connector at the back | Hose connector at the back |
| Air distribution | Airduct over the head, adjustable at the outlet | Airduct over the head, adjustable at the outlet | Airduct over the head, adjustable at the outlet | Airduct over the head, adjustable at the outlet |
| Air outlet | Permeable, width-adjustable textile cuff in the chin/neck area | Permeable, width-adjustable textile cuff in the chin/neck area | Permeable, width-adjustable textile cuff in the chin/neck area | Permeable, width-adjustable textile cuff in the chin/neck area |
| Colour | Grey (Helmet seal: grey) | Grey (Helmet seal: white) | Grey (Hood: white) | Grey (Hood: white) |
| Weight | L1Z: 2 lbs<br>L2Z: 2.2 lbs<br>L3Z: 2.5 lbs | L2T2: 2.1 lbs<br>L3T4: 2.1 lbs | with hood T2: 1.7 lbs<br>with hood T4: 1.9 lbs | with hood T2: 1.5 lbs<br>with hood T4: 1.7 lbs |

Tychem® is a registered trademark of E.I. Du Pont de Nemours and Co.
Zytec® is a registered trademark of RPB Safety, LLC.

# Air Purifying Respirators

## Technical Data

| | | | | |
|---|---|---|---|---|
| Max. storage | 5 years | 5 years | 5 years | 5 years |
| Max. usage | 3 years | 3 years | 3 years | 3 years |
| Approval - Respiratory protection | NIOSH 42 CFR 84 | NIOSH 42 CFR 84 | NIOSH 42 CFR 84 | NIOSH 42 CFR 84 |
| Approval - Head protection | EN 397 (-30 °C LD MM 440V a.c.) | EN 397 (-30 °C LD MM 440V a.c.) | EN 397 (-30 °C LD) | EN 812 |
| | ANSI Z89.1 (Type 1 Class G) | ANSI Z89.1 (Type 1 Class G) | ANSI Z89.1 (Type 1 Class G) | |
| Approval - Eye protection | 1 BT 9 3 – EN 166 ANSI Z87+ | 1 BT 9 3 – EN 166 ANSI Z87+ | 2 F 3 – EN 166 [1] | 2 F 3 – EN 166 [1] |

[1] Meets the technical requirements, certification pending

| **Earmuffs*** | |
|---|---|
| Damping value** | SNR: 33 dB<br>H: 37 dB<br>M: 30 dB<br>L: 23 dB |
| Material - Capsule (outside) | ABS |
| Material - Padding | Foam material (EVA) |
| Material - Mounting hook | Metal |
| Weight | 0.48 lbs |
| Size | Universal size |
| Approval | EN 352-3, ANSI S3.19 |

* for mounting on the helmet

** SNR = Single Number Rating (the average damping of a hearing protector and thus the average protective effect against the noise).
H = Damping value high frequencies
M = Damping value middle frequencies
L = Damping value low frequencies

02

# Self Contained Breathing Apparatus


**Supplied Air Respirators**
Dräger PAS® Colt 46

**NIOSH SCBA**
Dräger PAS® Lite 48
Dräger PSS® 3000 53

**NFPA-Certified SCBA**
Dräger PSS® 5000 55
Dräger PSS® 7000 57

Secor 7000 59
Panorama Nova Dive 62
PSS® BG 4 plus 64

Dräger FPS®-COM 5000 67
Dräger FPS®-COM 7000 69

02

# 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.

# 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

## Dräger PAS® Colt

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **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 SAR w/ NO Mask, CEJN | | 1/box | VN00745 |
| PAS® Colt 5 min w/ Panorama Nova® Mask, 2216 PSI Cylinder, Hansen Brass | | 1/box | 4046205 |
| PAS® Colt 5 min w/ NO Mask, 2216 PSI Cylinder, Hansen Brass | | 1/box | 4046206 |
| PAS® Colt 5 min w/ NO Mask or Cylinder, CEJN | | 1/box | VN00746 |
| PAS® Colt 5 min w/ NO Mask or Cylinder, CEJN and ASV | | 1/box | VN00747 |
| PAS® Colt 5 min w/ NO Mask or Cylinder, Hansen Brass and ASV | | 1/box | VN00748 |
| PAS® Colt 10 min w/ Panorama Nova® Mask, 3000 PSI Cylinder, Hansen Brass and ASV | | 1/box | 4046209 |
| PAS® Colt 10 min w/ NO Mask, 3000 PSI Cylinder, Hansen Brass and ASV | | 1/box | 4046210 |
| PAS® Colt 10 min w/ NO Mask or Cylinder, CEJN | | 1/box | VN00749 |
| PAS® Colt 10 min w/ NO Mask or Cylinder, CEJN and ASV | | 1/box | VN00750 |
| PAS® Colt 10 min w/ NO Mask or Cylinder, Hansen Brass | | 1/box | VN00751 |
| Configurable Pas Colt (eg. Escape Only Versions, Alternate Airline Fittings, etc.) | | 1/box | R62985 |
| **Cylinders for Dräger PAS® Colt** | | | |
| 5 min, 2216 PSI Aluminum Cylinder w/ Standard Valve | | 1/box | 4054744 |
| 5 min, 2216 PSI Aluminum Cylinder w/ SCBA Style Valve | | 1/box | 4057549 |
| 10 min, 3000 PSI Aluminum Cylinder w/ Standard Valve | | 1/box | 4055061 |
| **Facepieces for Dräger PAS® Colt** | | | |
| Panorama Nova, EPDM | | 1/box | R52972 |
| FPS 7000 Small, EPDM | | 1/box | R56249 |
| FPS 7000 Medium, EPDM | | 1/box | R56200 |
| FPS 7000 Large, EPDM | | 1/box | R56300 |
| **Airline Hose for Dräger PAS® Colt** | | | |
| 50' Light Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00739 |
| 50' Light Duty Airline Hose w/ Hansen Brass Fittings | | 1/box | VN00740 |
| 100' Light Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00743 |
| 100' Light Duty Airline Hose w/ Hansen Brass Fittings | | 1/box | VN00744 |
| 50' Heavy Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00737 |
| 50' Heavy Duty Airline Hose w/ Hanse Brass Fittings | | 1/box | VN00738 |
| 100' Heavy Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00741 |
| 100' Heavy Duty Airline Hose w/ Hansen Brass Fittings | | 1/box | VN00742 |
| Configurable Airline Host (eg. Different Lengths, Alternate Airline Fittings, etc.) | | 1/box | R62939 |

02

# Self Contained Breathing Apparatus

## Technical Data

| | | |
|---|---|---|
| Standard | NIOSH 42 CFR part 84 - 19C | NIOSH 42 CFR part 84 - 13F |
| 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) |

# 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.

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger PAS® Lite** | | | |
| SCBA variants | | | |
| **PAS® Lite with integrated Lung Demand Valve (LDV); Facemask and cylinder sold separately** | | | |
| PAS® Lite – 2216 psi | | 1 / box | 4046190 |
| PAS® Lite – 4500 psi | | 1 / box | 4046191 |
| **PAS® Lite with integrated Lung Demand Valve (LDV), Panorama Nova Facemask and 30-minute aluminum cylinder** | | | |
| PAS® Lite Kit – 2216 psi without SCBA case | | 1 / box | 4046192 |
| PAS® Lite Kit – 2216 psi with SCBA case | | 1 / box | 4046193 |
| **PAS® Lite with integrated Lung Demand Valve (LDV), integrated Charge-Air connection, 60-minute 4500 psi cylinder, FPS® 7000 Facemask, and mask storage bag** | | | |
| PAS® Lite Charge-Air – 4500 psi | | 1 / box | 40461909 |
| **PAS® Lite with integrated Lung Demand Valve (LDV) and integrated Airline complete with an automatic switchover valve (ASV); Facemask and cylinder sold separately** | | | |
| PAS® Lite Airline – 2216 psi | | 1 / box | 3358743 |
| PAS® Lite Airline – 4500 psi | | 1 / box | 3358744 |
| PAS® Lite Configurable | | 1 / box | R62983 |
| Cylinders for Dräger PAS® Lite | | | |
| 2216 PSI, 30 min, Aluminum Cylinder, Yellow | | 1/box | 4054856 |
| 2216 PSI, 30 min, Carbon Composite Cylinder, Yellow | | 1/box | 4055701 |
| 2216 PSI, 30 min, Carbon Composite Cylinder, Clear Coated (Unpainted) | | 1/box | 4058990 |
| 4500 PSI, 30 min, Carbon Composite Cylinder, Blue | | 1/box | 4055700 |
| 4500 PSI, 30 min, Carbon Composite Cylinder, Clear Coated (Unpainted) | | 1/box | 4058991 |
| 4500 PSI, 45 min, Carbon Composite Cylinder, Blue | | 1/box | 4055698 |
| 4500 PSI, 45 min, Carbon Composite Cylinder, Clear Coated (Unpainted) | | 1/box | 4058992 |
| 4500 PSI, 60 min, Carbon Composite Cylinder, Blue | | 1/box | 4055699 |
| 4500 PSI, 60 min, Carbon Composite Cylinder, Clear Coated (Unpainted) | | 1/box | 4058993 |
| Custom Color and/or Logo Cylinders | | 1/box | On request |
| Facepieces for Dräger PAS Lite | | | |
| Panorama Nova, EPDM | | 1/box | R52972 |
| FPS 7000 Small, EPDM | | 1/box | R56249 |
| FPS 7000 Medium, EPDM | | 1/box | R56200 |
| FPS 7000 Large, EPDM | | 1/box | R56300 |

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Airline Hose for Dräger PAS Lite** | | | |
| 50' Light Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00739 |
| 50' Light Duty Airline Hose w/ Hansen Brass Fittings | | 1/box | VN00740 |
| 100' Light Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00743 |
| 100' Light Duty Airline Hose w/ Hansen Brass Fittings | | 1/box | VN00744 |
| 50' Heavy Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00737 |
| 50' Heavy Duty Airline Hose w/ Hanse Brass Fittings | | 1/box | VN00738 |
| 100' Heavy Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00741 |
| 100' Heavy Duty Airline Hose w/ Hansen Brass Fittings | | 1/box | VN00742 |
| Configurable Airline Host (eg. Different Lengths, Alternate Airline Fittings, etc.) | | 1/box | R62939 |
| **Accessories for Dräger PAS Lite** | | | |
| PAS ASV Upgrade Kit for PAS Lite and PSS 3000 | | 1/box | 3358850 |
| LDV Holder | | 1/box | 3357527 |
| Hard SCBA Storage Case, Orange | | 1/box | 4059430 |
| Wall Mounting Kit for SCBA Storage Case (4059430) | | 1/box | 4059442 |
| Soft SCBA Storage Duffle Bag | | 1/box | 4057795 |
| Facepiece Carry Bag, Yellow Nylon w/ Belt Loops | | 1/box | 4053847 |
| Facepiece Carry Bag, Blue Nylon w/ drawstring | | 1/box | 4055785 |

## 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 |

# 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.

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger PSS® 3000** | | | |
| SCBA variants | | | |
| **PSS® 3000 Base SCBA; Lung Demand Valve (LDV), Facemask and cylinder sold separately** | | | |
| PAS® 3000 – 2216 psi | | 1 / box | 4046195 |
| PAS® 3000 – 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 |
| **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 |
| Cylinders for Dräger PSS® 3000 | | | |
| 2216 PSI, 30 min, Aluminum Cylinder, Yellow | | 1/box | 4054856 |
| 2216 PSI, 30 min, Carbon Composite Cylinder, Yellow | | 1/box | 4055701 |
| 2216 PSI, 30 min, Carbon Composite Cylinder, Clear Coated (Unpainted) | | 1/box | 4058990 |
| 4500 PSI, 30 min, Carbon Composite Cylinder, Blue | | 1/box | 4055700 |
| 4500 PSI, 30 min, Carbon Composite Cylinder, Clear Coated (Unpainted) | | 1/box | 4058991 |
| 4500 PSI, 45 min, Carbon Composite Cylinder, Blue | | 1/box | 4055698 |
| 4500 PSI, 45 min, Carbon Composite Cylinder, Clear Coated (Unpainted) | | 1/box | 4058992 |
| 4500 PSI, 60 min, Carbon Composite Cylinder, Blue | | 1/box | 4055699 |
| 4500 PSI, 60 min, Carbon Composite Cylinder, Clear Coated (Unpainted) | | 1/box | 4058993 |
| Custom Color and/or Logo Cylinders | | 1/box | On request |
| Cylinders for Dräger PSS® 3000 | | | |
| Panorama Nova, EPDM | | 1/box | R52972 |
| FPS 7000 Small, EPDM | | 1/box | R56249 |
| FPS 7000 Medium, EPDM | | 1/box | R56200 |
| FPS 7000 Large, EPDM | | 1/box | R56300 |

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Airline Hose for Dräger PSS® 3000** | | | |
| 50' Light Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00739 |
| 50' Light Duty Airline Hose w/ Hansen Brass Fittings | | 1/box | VN00740 |
| 100' Light Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00743 |
| 100' Light Duty Airline Hose w/ Hansen Brass Fittings | | 1/box | VN00744 |
| 50' Heavy Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00737 |
| 50' Heavy Duty Airline Hose w/ Hanse Brass Fittings | | 1/box | VN00738 |
| 100' Heavy Duty Airline Hose w/ CEJN Fittings | | 1/box | VN00741 |
| 100' Heavy Duty Airline Hose w/ Hansen Brass Fittings | | 1/box | VN00742 |
| Configurable Airline Host (eg. Different Lengths, Alternate Airline Fittings, etc.) | | 1/box | R62939 |
| **Accessories for Dräger PSS® 3000** | | | |
| PAS ASV Upgrade Kit for PAS® Lite and PSS® 3000 | | 1/box | 3358850 |
| LDV Holder | | 1/box | 3357527 |
| Hard SCBA Storage Case, Orange | | 1/box | 4059430 |
| Wall Mounting Kit for SCBA Storage Case (4059430) | | 1/box | 4059442 |
| Soft SCBA Storage Duffle Bag | | 1/box | 4057795 |
| Facepiece Carry Bag, Yellow Nylon w/ Belt Loops | | 1/box | 4053847 |
| Facepiece Carry Bag, Blue Nylon w/ drawstring | | 1/box | 4055785 |

## 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 |

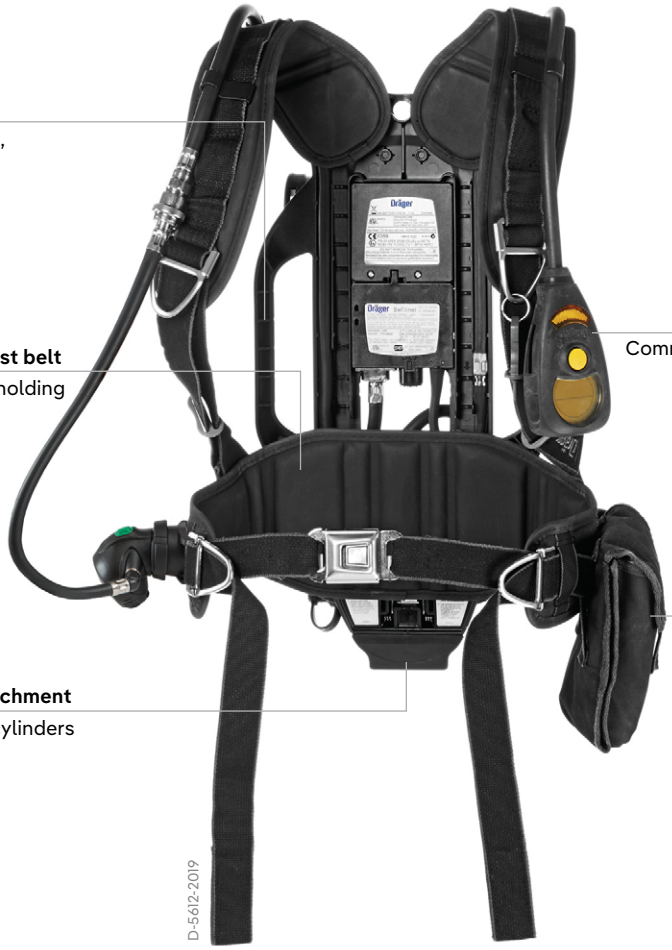
# Dräger PSS® 5000
## NFPA-Certified SCBA

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

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## Dräger PSS® 5000

| 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 67 |
| Dräger FPS® COM 7000 | 1 / box | See page 69 |
| **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 |

# 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

D-5613-2019

**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

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## Dräger PSS® 7000

| 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 |

# 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 airlow

**Individual configuration**

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

D-10382-2016

**300 bar technology**

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

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## Dräger Secor® 7000

| | |
|---|---|
| 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 |
| Inflater hose, 0.78 m | T54186 |
| Panorama Nova Dive | T53510 |
| Panorama Nova Dive Sport | T53700 |
| Dräger PSS® Dive | T54500 |

## Technical Data

| Dräger Secor 7000 | |
|---|---|
| Water temperature | 2 °C to 40 °C (35.6 °F to 104 °F) |
| **Pressure gauge, 1st stage, DIN** | |
| 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) |
| **Pressure gauge, 1st stage, INT** | |
| As before, except: | |
| Inlet | Max. 232 bar/3,364 PSI, with INT yoke adapter CGA 850 |
| Weight | 960 g (2.11 lb) |

02

# Self Contained Breathing Apparatus

## Technical Data

| 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) |

# 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.

D-12944-2018

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger Panorama Nova Dive** | | | |
| Panorama Nova Dive Sport (Without Mask Box) | | | T53700 |
| Panorama Nova Dive | | | T53510 |
| Klar-Pilot Gel, 50 ml | | | R52560 |

## Technical Data

| | |
|---|---|
| **Weight** | |
| 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 |
| **Exhalation Valve Opening Pressure** | |
| Panorama Nova Dive | 3.2 to 6.0 mbar |
| Panorama Nova Dive NM/R | 25 to >25 mbar |

# 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

**Breathing hose**

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

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

Easy donning in confined spaces as well as high quality ergonomics

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger PSS® BG 4 plus** | | | |
| 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 |
| **Required for operation** | | | |
| 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 | | | |
| **Accessories for communication** | | | |
| 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 |
| BG 4 Cylinder | | | B30229 |
| BG ProAir Cylinder for BG 4 | | | 3721275 |
| BG ProAir Cylinder Cradle for BG 4 | | | 3700348 |

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Expansion sets** | | | |
| DraegerSorb 400 | | | 6737985 |
| Filtermats | Package of 50 | | 4058167 |
| Dräger CO2 Single-Use Absorber | | | R34360 |
| Freezer Canister | | | R33999 |
| **Software Kit for Dräger PSS® BG 4 plus Sentinel II** | | | |
| Dräger Interface Software Bg Ir-Link II | | | 3351342 |
| Dräger PC Data Link Cable | | | 3354304 |

## Technical Data

| Dräger PSS® BG 4 plus | |
|---|---|
| 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), $CO_2$ 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<br>23.43 x 17.72 x 7.28 inches |
| Constant oxygen metering (l/min $O_2$) | 1.5 to 1.9 |
| Minimum valve (l/min O2) | > 80 |
| Breathing bag volume (l) | 5.5 |
| Bypass valve (l/min O2) | > 50 |
| Operating temperatures | -40 °C / -40 °F to +90 °C / +194 °F<br>(if stored at room temperature) |
| Approvals | EN 145, Ex protection according to EN IEC 60079, Eex IIC T4, Eex ial and NIOSH and MSHA |

# 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.

**Flexible gooseneck earpiece**
Easily adjusts to conform to your head for maximum voice audibility

**Dual voice amps**
Deliver high volume sound directed toward the listener

**Wired radio connection**
Optional wired connection to more than 350 different tactical radios

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger FPS® COM 5000 2018 Edition (for FPS® 7000 P18)** | | | |
| 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<br>EX ia IIC T4 Ga<br>EX ia IIC T130°C/T95°C Da<br>T4 (Ta = -30°C to +60°C) |
| USA, Canada<br>UL913 | Class I, II, III, Div. 1 Group A–G, T-code T4<br>T4 (Ta = -30°C to +60°C)<br>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,<br>10 to 95% relative humidity |

# 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.

**Flexible gooseneck earpiece**
Earpiece perfectly positioned for maximum voice clarity

**Optional second earpiece**
Dual sound for better communication

**Clip-on attachment**
Quick and easy attachment and removal of the COM unit

**Battery compartment**
Power is supplied by 2xAA batteries, including automatic switch-off when not in use

**Group selector switch**
Allocation of talk groups

**Large Push-To-Talk (PTT) button**
Easy access to tactical radio

**Dual side voice amplifier**
High sound quality for the listener

02

# Self Contained Breathing Apparatus

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger FPS® COM 7000 2018 Edition (for FPS® 7000 P18)** | | | |
| 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 |
| | | | |
| C7 configuration software with update cable | | | R61320 |

## Technical Data

| FPS® COM 7000 P18 | |
|---|---|
| Approvals | NFPA 1981, 2018 Edition<br>IECEx: Ex ia IIC T4/ T3 Ga (Ta = -22°F (-30°C) to 122°F (50°C))<br>CAN/CSA: Class I, Div. 1, Groups A-D T3/T4<br>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 |

03

# Emergency Escape Breathing Apparatus


**Escape Hoods**
Dräger PARAT® 73

**Emergency Escape Breathing Apparatus**
Dräger Saver CF N (NIOSH) 76

03

# 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.

# 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.

**Clearly visible hood**
Hood in signal color for high visibility

**Internal head harness**
Automatically adjusting internal harness, so no additional tightening of the hood is required

**High-performance filter**
Filter expiration date is clearly marked (8 year shelf life per filter); the filter is automatically released from the packaging when opened

**Exhalation valve**
Directly leads the exhaled air out of the half mask

D-8621-2016

**Overall protection**
Hood provides both respiratory and eye protection

**Clear view**
Wide field of vision due to a specially formed visor, which provides a continuously clear view due to to a special antifog coating

**Good fit**
Specially designed half mask fits a wide variety of face sizes

**Textile neck seal**
Flexible textile neck seal for high protection level

# Emergency Escape Breathing Apparatus

## Dräger PARAT® Escape Hoods

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger PARAT®** | | | |
| Dräger PARAT® 4920, Soft Pack | | 1 / box | 3721331 |
| Dräger PARAT® 5510, Single Pack | | 1 / box | R59415 |
| Dräger PARAT® 5520, Soft Pack | | 1 / box | 3721330 |
| Dräger PARAT® 5530, Hard Case | | 1 / box | R59435 |
| Dräger PARAT® 7520, Soft Pack | | 1 / box | 3721329 |
| 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 | 3721327 |
| 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 |
| Luminescent Sticker Set, PARAT® 4920 SP, Set of 10 | | 10/PK | 3725786 |
| Luminescent Sticker Set, PARAT® 5520 SP, Set of 10 | | 10/PK | 3725782 |
| Luminescent Sticker Set, PARAT® 7520 SP, Set of 10 | | 10/PK | 3725785 |
| Luminescent Sticker Set, Parat Training SP, Set of 10 | | 10/PK | 3725787 |

# Emergency Escape Breathing Apparatus

## Technical Data

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

| PARAT® 4900: NIOSH Approved and Independently Tested Gases & 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 -3 | 60 | Independent/In House Testing |

# 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. |
|---|---|---|---|

## Dräger Saver CF N (NIOSH)

| Dräger Saver CF NIOSH | | |
|---|---|---|
| Saver CF5 N | 1 / box | 4042055 |
| Saver CF10 N | 1 / box | 4042056 |

## Technical Data

| | **Dräger Saver CF NIOSH 5 Minute** | **Dräger Saver CF NIOSH 10 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) |
| Weight | 8.7 lb. (3.98 kg) | 11.2 lb. (5.12 kg) |
| Cylinder charging pressure | 3,000 psi | 3,000 psi |
| Airflow to the hood | 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) |
| Approvals | 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) |

04

# Portable Gas Detection


**Multi-Gas Detectors**

Dräger X-am® 2500 80
Dräger X-am® 2800 84
Dräger X-am® 5000 92
Dräger X-am® 5600 99
Dräger X-am® 5800 105
Dräger X-am® 3500 114
Dräger X-am® 8000 119
Dräger X-pid® 9500 126

**Area Monitoring**

Dräger X-zone® 5800 130

**Calibration and Bump Testing**

Dräger X-dock® 5300/6300/6600 133

**Single-Gas Detectors**

Dräger Pac® 6000 137
Dräger Pac® 6500 140
Dräger Pac® 8000 143
Dräger Pac® 8500 146
Dräger X-am® 5100 149

**Wireless Hazard Area Monitor**

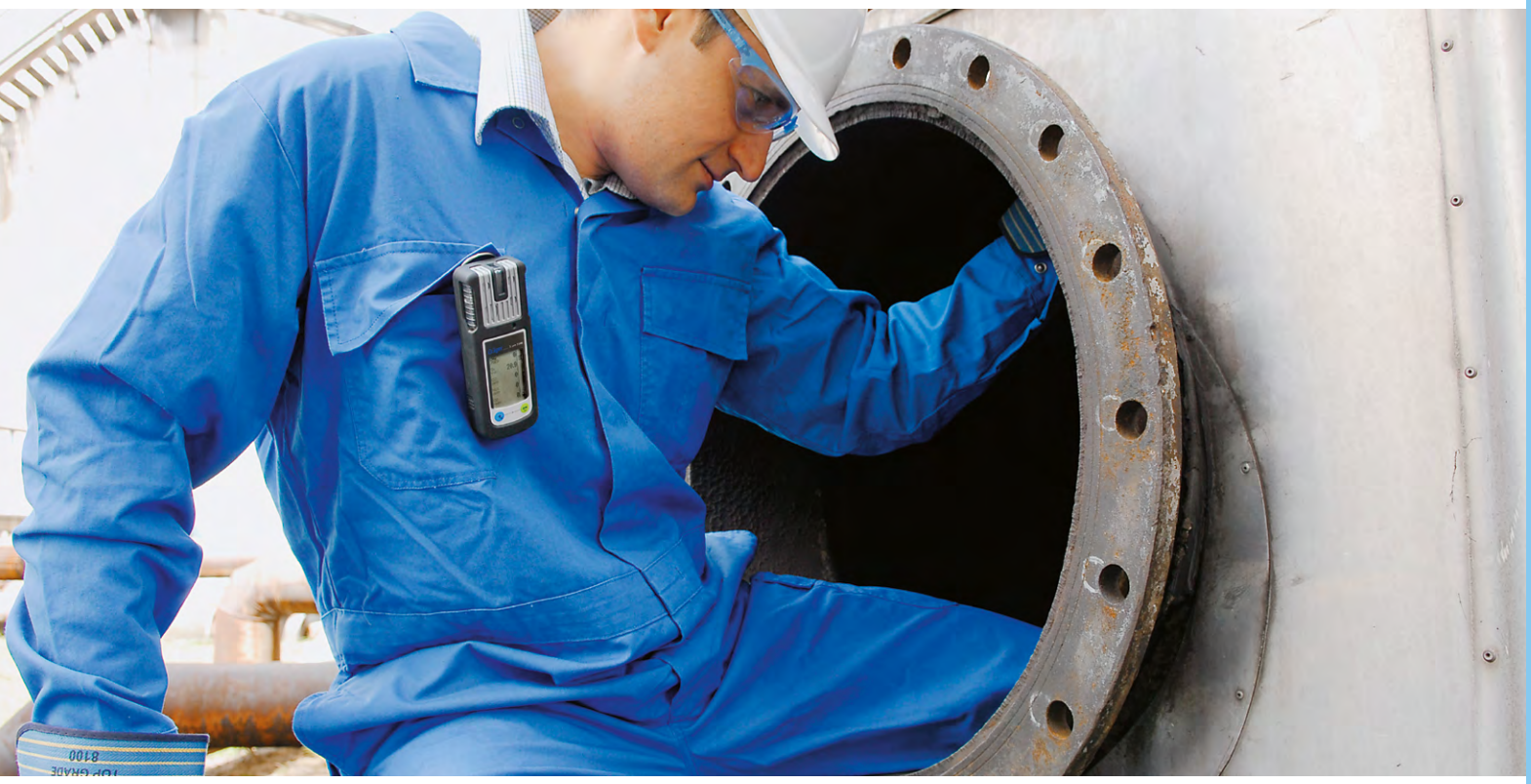
X-site Live 152

**External Pump**

X-am® Pump 156

04

# 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.

# Dräger X-am® 2500
## Multi-Gas Detector

Dräger's X-am® 2500 accurately detects combustible gases, $O_2$, CO, $NO_2$, $SO_2$ and $H_2S$ and is the only 1-4 gas monitor you need in industrial and refinery applications. The X-am® 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. |
|---|---|---|---|
| **Dräger X-am® 2500** | | | |
| X-am® 2500 | | | |
| X-am® 2500 Ex/$O_2$/CO/$H_2S$, NiMH w/charger kit | | 1 / box | 4542261 |
| 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<br>- Requires 8325736 adapter | | 1 / box | 8321849 |
| Power supply with connection cable (worldwide use) for max. 20 charging modules<br>- 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 |
| Bar Probe GP600 | | 1 / box | 8328667 |

# 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,<br>> 168 h w/o Ex sensor with alkaline batteries<br>> 250 h w/o Ex sensor with alkaline batteries | |
| Charging times | < 4 h | |
| Data logger | Retrievable using an infrared interface<br>> 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

| | | | |
|---|---|---|---|
| Approvals | | 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 | |
| | ATEX | Performance approval to: | Vibration |
| | | EN 50104(2002) + A1 (2004) | $O_2$ |
| | | EN 45544 | CO & $H_2S$ |
| | | EN 60079-29-1:2007 | Methane to nonane |
| | | EN 50271:2001 | Software and documentation |
| | 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<br>Ex ia IIC T3 Ga<br>Ex d ia I Mb<br>Ex d ia IIC T4/T3 Gb | |
| | CE mark | Electromagnetic Compatibility (Directive 2004/108/EC);<br>ATEX (Directive 94/9/EC) | |
| | MED | Marine Equipment Directive (Directive 96/98/EC) | |
| | MSHA | Permissible Gas Detector | |

# Dräger X-am® 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.

**Green illuminated D-light (optional) that signals when the unit is tested and ready for use**

**CatEx SR (Shock Resistant), measuring flammable gases and vapors, with high shock load resistance**

**Label area for optional color marking**

**Easy-to-read display provides the most important information at-a-glance**

**Dräger Gas Detection Connect support means easy fleet management with the Drager X-dock and data transmission with Bluetooth**

**Back features a robust clip with D-ring that securely fastens to clothing in the the breathing zone**

**Intuitive visual alarm displays flashing red for gas alarm and yellow for instrument errors**

**DragerSensors in XXS format (electrochemical sensors) measure O2, CO and H2S, with a 5-year warranty**

**Robust design carries an IP68 rating, withstands water and dust, and drop test rating is > 6 ft / 2 m**

**Large buttons for ease of use while wearing gloves**

# 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 |
| **Ambient conditions** | |
| 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)<br>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 |
| **Alarms** | |
| Visual | 3 LED “red” (gas alarms)<br>3 LED “yellow” (device alarm) |
| Audible | Multi-tone > 90 dB at 30 cm (12 in) |
| Vibration | |
| **Additional technical specifications** | |
| 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.<br>(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<br>Class I, Zone 0, AEx da ia IIC T4 Ga<br>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 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) |
| **Manufacturer's warranty** | |
| 4 years for the device (electronics and housing) | |
| 3 Years for the CatEx SR sensor, 5 years for the $O_2$, CO, $H_2S$ sensors (except NO2 (1 year) and $SO_2$ (2 years) | |
| 2 years for the energy supply (battery) | |

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger X-am® 2800** | | | |
| 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) | | | VN00605 |
| 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: www.draeger.com/ifu Part number: 9300428 | |
| Technical manual available in the following languages: : GER, EN, FR, ES, RU | | Available as download on the product page: www.draeger.com/ifu 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. |
|---|---|---|---|
| **Sensors** | | | |
| CatEx SR (Shock Resistant) 1) 2) (factory setting: methane, other measuring gases selectable) methane, additional gases adjustable (propane, pentane, nonane, hydrogen and many more) | Measurement Range: 0 – 100 % LEL<br>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.-% CH4<br>Resolution: 0.1 Vol.-% | 1 / box | 6851900 |
| XXS $O_2$ 1) (4 alarm thresholds) oxygen | Measurement Range: 0 – 25 Vol%<br>Resolution: 0.1 Vol.-%. > 5 years | 1 / box | 6810881 |
| XXS $O_2$ PR (4 alarm thresholds, increased robustness) oxygen | Measurement Range: 0 – 30 Vol.-%<br>Resolution: 0.1 Vol.-%. > 5 years | 1 / box | 6800530 |
| XXS CO LC 1) carbon monoxide | Measurement Range: 0 – 2,000 ppm<br>Resolution: 1 ppm. > 5 years | 1 / box | 6813210 |
| XXS $H_2S$ LC 1) hydrogen sulphide | Measurement Range: 0 – 200 ppm<br>Resolution: 0.1 ppm. > 5 years | 1 / box | 6811525 |
| XXS $NO_2$ nitrogen dioxide | Measurement Range: 0 – 50 ppm<br>Resolution: 0.1 ppm. > 3 years | 1 / box | 6810884 |
| XXS $SO_2$ (with KX-Filter) sulphur dioxide | Measurement Range: 0 – 100 ppm<br>Resolution: 0.1 ppm. > 3 years | 1 / box | 6810885 |

All sensors: Response time T90: < 15 s (CatEx SR: specification for gas methane/propane)
All sensors: Response time T90: < 15 s (CatEx SR: specification for gas methane/propane)
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.
2) Special calibration for the Ex sensor is possible (default setting: methane, target gas calibration and cross calibration is possible).

| | |
|---|---|
| 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. |
|---|---|---|---|
| **Power supply units/chargers** | | | |
| | 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 |
| **Pump accessories** | | | |
| | Dräger X-am® Pump (external pump) | | 8327115 |
| | 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 (www.draeger.com/software) | | |
| | Dräger GasVision license key. Trial Version (www.draeger.com/software) | | 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<br>includes: Access, infrastructure, connection of up to 99 X-dock stations, 5,000 credits, valid for one year after activation. | | 3719332 |
| | GDC Basic License<br>includes: IT infrastructure (data storage, maintenance, automatic feature updates, troubleshooting). 24/7 support, access | | 3719809 |
| | GDC Asset License<br>includes: Definable number of X-dock stations, requires the Basic License | | 3719810 |
| | GDC Asset Lite<br>includes: One X-dock station, non-expandable, does not require a Basic License | | 3719811 |
| | GDC Credits<br>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 |

# Dräger X-am® 5000
## Multi-Gas Detector

The Dräger X-am® 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 $O_2$ 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°

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

**Large display**
All values at a glance

**Retro-reflective label:**
Easy to find in the dark or in water

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger X-am® 5000** | | | |
| 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.-% $CH_4$<br>Resolution: 1 % LEL, 1 Vol.-% | 1 / box | 6812950 |
| Cat-Ex 125 PR Gas | Measurement Range: 0 – 100 % LEL, 0 – 100 Vol.-% $CH_4$<br>Resolution: 1 % LEL, 1 Vol.-% | 1 / box | 6813080 |
| DrägerSensor XXS $O_2$*** | Measurement Range: 0 – 25 Vol.-%<br>Resolution: 0.1 Vol.-% | 1 / box | 6810881 |
| DrägerSensor XXS $O_2$ PR | Measurement Range: 0 – 30 Vol.-%<br>Resolution: 0.1 Vol.-% | 1 / box | 6800530 |
| DrägerSensor XXS CO LC*** | Measurement Range: 0 – 2,000 ppm<br>Resolution: 1 ppm | 1 / box | 6813210 |
| DrägerSensor XXS CO HC | Measurement Range: 0 – 10,000 ppm<br>Resolution: 5 ppm | 1 / box | 6812010 |
| DrägerSensor XXS CO / $H_2$ compensated | Measurement Range: 0 – 2000 COppm<br>Resolution: 2 ppm | 1 / box | 6811950 |
| DrägerSensor XXS $H_2S$*** | Measurement Range: 0 – 200 ppm<br>Resolution: 1 ppm | 1 / box | 6810883 |
| DrägerSensor XXS $H_2S$ LC*** | Measurement Range: 0 – 200 ppm<br>Resolution: 0.1 ppm | 1 / box | 6811525 |
| DrägerSensor XXS $H_2S$ HC | Measurement Range: 0 – 1,000 ppm<br>Resolution: 2 ppm | 1 / box | 6812015 |
| DrägerSensor XXS NO | Measurement Range: 0 – 200 ppm<br>Resolution: 0.5 ppm | 1 / box | 6811545 |

04

# 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 $H_2S$-LC / CO-LC | Measurement Range: 0 – 2000 ppm CO / 0-100 ppm H2S; Resolution: 0.1 ppm H2S / 1 ppm | 1 / box | 6813280 |
| DrägerSensor XXS $NO_2$ | Measurement Range: 0 – 50 ppm Resolution: 0.1 ppm | 1 / box | 6810884 |
| DrägerSensor XXS $NO_2$ LC | Measurement Range: 0 – 50 ppm Resolution: 0.02 ppm | 1 / box | 6812600 |
| DrägerSensor XXS $SO_2$ | Measurement Range: 0 – 100 ppm Resolution: 0.1 ppm | 1 / box | 6810885 |
| DrägerSensor XXS $PH_3$ | Measurement Range: 0 – 20 ppm Resolution: 0.01 ppm | 1 / box | 6810886 |
| DrägerSensor XXS $PH_3$ HC | Measurement Range: 0 – 2,000 ppm Resolution: 1 ppm | 1 / box | 6812020 |
| DrägerSensor XXS HCN | Measurement Range: 0 – 50 ppmm 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 $NH_3$ | Measurement Range: 0 – 300 ppm Resolution: 1 ppm | 1 / box | 6810888 |
| DrägerSensor XXS $CO_2$ | Measurement Range: 0 – 5 Vol.-% Resolution: 0.1 Vol.-% | 1 / box | 6810889 |
| DrägerSensor XXS $Cl_2$ | Measurement Range: 0 – 20 ppm Resolution: 0.05 ppm | 1 / box | 6810890 |
| DrägerSensor XXS $H_2$ | Measurement Range: 0 – 2,000 ppm Resolution: 5 ppm | 1 / box | 6812370 |
| DrägerSensor XXS $H_2$ 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<br>Resolution: 1 ppm | 1 / box | 6812545 |
| DrägerSensor XXS Odorant | Measurement Range: 0 – 40 ppm<br>Resolution: 0.5 ppm | 1 / box | 6812535 |
| DrägerSensor XXS $COCl_2$ | Measurement Range: 0 – 10 ppm<br>Resolution: 0.01 ppm | 1 / box | 6812005 |
| DrägerSensor XXS Ozone | Measurement Range: 0 – 10 ppm<br>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 | 3703887 |
| Power pack & charging set<br>Consisting of: rechargeable NiMH power supply T4, charging module and a single charger (for worldwide use) | | 3703889 |
| **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<br>- Requires 8325736 adapter | 1 / box | 8321850 |
| Single charger (worldwide use) for max. 5 charging modules<br>- 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 |
| 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) | |

## Technical Data

| | | |
|---|---|---|
| Approvals | ATEX | I M1, II 1G<br>Ex da ia I Ma, Ex da ia IIC T4 Ga |
| | | Performance approval to:<br>EN 50104 (2002) + A1 (2004) $O_2$<br>EN 45544 CO & $H_2S$<br>EN 60079-29-1:2007 Methane to nonane<br>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 |
| | IECEx | Ex ia I<br>Ex ia IIC T3<br>Ex d ia I<br>Ex d ia IIC T4/T3 |
| | CE-mark | Electromagnetic compatibility Directive 2004 / 108 / EG; EN 50270:2006 |
| | EAC | PO Ex ia I X<br>0 Ex ia IIC T4 / T3 X |
| | MED | Marine Equipment Directive 96 / 98 / EC |
| | MSHA | Permissible Gas Detector |

# 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

**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

**Retro-reflective label:**
Easy to find in the dark or in water

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## 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/$CO_2$ ES* | Measurement Range: 0 – 100 % LEL, 0 – 100 Vol.-% Methane, Propane, Ethylene, 0 – 5 Vol.-% $CO_2$<br>Resolution: 1 % LEL, 0.1 Vol.-% $CH_4$, 0.01 Vol.-% $CO_2$ | 1 / box | 6851880 |
| DrägerSensor IR Ex ES* | Measurement Range: 0 – 100 % LEL, 0 – 100 Vol.-% Methane, Propane, Ethylene<br>Resolution: 1 % LEL, 0.1 Vol.-% $CH_4$ | 1 / box | 6851881 |
| DrägerSensor IR $CO_2$ ES* | Measurement Range: 0 – 5 Vol.-% $CO_2$<br>Resolution: 0.01 Vol.-% $CO_2$ | 1 / box | 6851882 |
| **Electrochemical Sensors** | | | |
| Dual Carbon Monoxide (CO) LC/Oxygen ($O_2$) XXS | Measurement Range: 0-2000 ppm CO 1 ppm 2 - Yr<br>Resolution: 0-25.0%Vol O2 0.1%Vol | 368 | 6813275 |
| Dual Hydrogen Sulfide ($H_2S$) LC/Oxygen ($O_2$) XXS | Measurement Range: 0-100 PPM H2S 0.1 ppm 2 - Yr<br>Resolution: 0-25.0%Vol O2 0.1%Vol | 368 | 6814137 |
| DrägerSensor XXS $O_2$ | Measurement Range: 0–25 Vol.-%<br>Resolution: 0.1 Vol.-% | 1 / box | 6810881 |
| DrägerSensor XXS $O_2$ PR | Measurement Range: 0 – 30 Vol.-%<br>Resolution: 0.1 Vol.-% | 1 / box | 6800530 |
| DrägerSensor XXS CO HC | Measurement Range: 0–10,000 ppm<br>Resolution: 5 ppm | 1 / box | 6812010 |
| DrägerSensor XXS CO/$H_2$ compensated | Measurement Range: 0–2,000 ppm CO<br>Resolution: 2 ppm | 1 / box | 6811950 |
| DrägerSensor XXS $H_2S$ LC | Measurement Range: 0–200 ppm<br>Resolution: 0.1 ppm | 1 / box | 6811525 |
| DrägerSensor XXS $H_2S$ HC | Measurement Range: 0–1,000 ppm<br>Resolution: 2 ppm | 1 / box | 6812015 |
| DrägerSensor XXS NO | Measurement Range: 0 – 200 ppm<br>Resolution: 0.5 ppm | 1 / box | 6811545 |

04

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| DrägerSensor XXS $H_2S$-LC / CO-LC | Measurement Range: 0 – 2000 ppm CO / 0-100 ppm $H_2S$; Resolution: 0.1 ppm H2S / 1 ppm | 1 / box | 6813280 |
| DrägerSensor XXS NO | Measurement Range: 0–200 ppm<br>Resolution: 0.1 ppm | 1 / box | 6811545 |
| DrägerSensor XXS $NO_2$ | Measurement Range: 0 – 50 ppm<br>Resolution: 0.1 ppm | 1 / box | 6810884 |
| DrägerSensor XXS $SO_2$ | Measurement Range: 0 – 100 ppm<br>Resolution: 0.1 ppm | 1 / box | 6810885 |
| DrägerSensor XXS $PH_3$ | Measurement Range: 0 – 20 ppm<br>Resolution: 0.01 ppm | 1 / box | 6810886 |
| DrägerSensor XXS $PH_3$ HC | Measurement Range: 0 – 2,000 ppm<br>Resolution: 1 ppm | 1 / box | 6812020 |
| DrägerSensor XXS HCN | Measurement Range: 0 – 50 ppmm<br>Resolution: 0.1 ppm | 1 / box | 6810887 |
| DrägerSensor XXS $NH_3$ | Measurement Range: 0 – 300 ppm<br>Resolution: 1 ppm | 1 / box | 6810888 |
| DrägerSensor XXS $CO_2$ | Measurement Range: 0 – 5 Vol.-%<br>Resolution: 0.1 Vol.-% | 1 / box | 6810889 |
| DrägerSensor XXS $Cl_2$ | Measurement Range: 0 – 20 ppm<br>Resolution: 0.05 ppm | 1 / box | 6810890 |
| DrägerSensor XXS $H_2$ | Measurement Range: 0 – 2,000 ppm<br>Resolution: 5 ppm | 1 / box | 6812370 |
| DrägerSensor XXS $H_2$ HC | Measurement Range: 0 – 4 Vol.-%<br>Resolution: 0.01 Vol.-% | 1 / box | 6812025 |
| DrägerSensor XXS OV | Measurement Range: 0 – 200 ppm<br>Resolution: 0.5 ppm | 1 / box | 6811530 |
| DrägerSensor XXS OV-A | Measurement Range: 0 – 200 ppm<br>Resolution: 1 ppm | 1 / box | 6811535 |

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| DrägerSensor XXS Amine | Measurement Range: 0 – 100 ppm<br>Resolution: 1 ppm | 1 / box | 6812545 |
| DrägerSensor XXS Odorant | Measurement Range: 0 – 40 ppm<br>Resolution: 0.5 ppm | 1 / box | 6812535 |
| DrägerSensor XXS $COCl_2$ | Measurement Range: 0 – 10 ppm<br>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 | 3703887 |
| Power pack & charging set<br>Consisting of: rechargeable NiMH power supply T4, charging module and a single charger (for worldwide use) | | | 3703889 |
| **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<br>- Requires 8325736 adapter | | 1 / box | 8321850 |
| Single charger (worldwide use) for max. 5 charging modules<br>- 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 |
| GP600 Probe (plastic), with Luer connection | | | 8328667 |
| 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<br>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<br>Ex da ia I Ma, Ex da ia IIC T4 Ga |
| | IEC | Ex ia l Ma<br>Ex ia llC 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<br>Class I, Zone 0, A/Ex ia IIC T4/T3 /Ga |

# Dräger X-am® 5800
## Multi-Gas Detector

The X-am® 5800 multi-gas detector measures up to six gases and is equipped with a shock-resistant CatEx SR sensor. With the Dräger Gas Detection Connect software, it offers live data transmission and powerful fleet management. Designed for personal monitoring, the X-am® 5800 offers the highest level of safety at a low cost of ownership.

glovesGreen illuminated D-light (optional) that signals when the unit is tested and ready for use

CatEx SR (Shock Resistant): measuring flammable gases and vapors, with high shock load resistance

Label area for optional color marking

Easy-to-read display provides the most important information at a glance

Dräger Gas Detection Connect support means easy fleet management with Dräger X-dock® and data transmission with Bluetooth®

Back features a robust clip with D-ring that securely fastens to clothing in the breathing zone

Intuitive visual alarm displays flashing red for gas alarm and yellow for instrument errors

Dräger Sensors in XXS format (electrochemical sensors) measure $O_2$, CO, and $H_2S$, with a 5-year warranty.

Robust design carries an IP68 rating, withstands water and dust, and drop test rating is >6 ft / 2m.

Large buttons for ease of use while wearing gloves

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger X-am® 5800** | | | |
| Dräger X-am® 5800 | | | |
| Dräger X-am® 5800 (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 CatEx SR sensor (factory setting: methane), alarm thresholds, alarm behavior, quick menu options, D-light etc. Power supply (battery) optional (factory setting: with battery), without charger | | | 3703850 |
| Instruction for use included in the standard scope of delivery in the following languages: de, en, fr, es, pt, it, nl, ru, zh, ja | | | 9300307 |
| Bluetooth® communication protocol (GATT licence) for subsequent activation | | | |
| Dräger X-am® Open GATT licence (1 pc.) | | | 3723353 |
| Dräger X-am® Open GATT licence (10 pcs.) | | | 3723354 |
| Dräger X-am® Open GATT licence (50 pcs.) | | | 3723355 |
| Slot 1: CatEx SR sensor / XD-IR sensor or PID neo sensor, as soon as available | | | |
| Slot 2 – 4: XXS-format electrochemical sensors, including 1 dual sensor | | | |
| DrägerSensors® | | | |
| CatEx SR (Shock Resitant)[1) 2)] (factory setting: methane, other measuring gases selectable) | Sample Gases: Methane, further gases adjustable (propane, pentane, nonane, hydrogen and many more)<br>Measurement Range: 0 – 100 % LEL<br>Resolution: 1 % LEL<br>Expected service life: > 4 years | 1 / box | 6851900 |
| | Sample Gases: Methane<br>Measurement Range: 0 – 5 Vol. %<br>Resolution: 0.1 Vol. % | | |
| XXS $O_2$ [1)] (4 alarm thresholds) | Sample Gases: oxygen<br>Measurement Range: 0 – 25 Vol. %<br>Resolution: 0.1 Vol. %<br>Expected service life: > 5 years | 1 / box | 6810881 |
| XXS $O_2$ PR (4 alarm thresholds, increased robustness) | Sample Gases: oxygen<br>Measurement Range: 0 – 30 Vol. %<br>Resolution: 0.1 Vol. %<br>Expected service life: > 5 years | 1 / box | 6800530 |
| XXS CO LC[1)] | Sample Gases: carbon monoxide<br>Measurement Range: 0 – 2,000 ppm<br>Resolution: 1 ppm<br>Expected service life: > 5 years | 1 / box | 6813210 |

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **DrägerSensors®** | | | |
| XXS $H_2S$ LC[1)] | Sample Gases: hydrogen sulphide<br>Measurement Range: 0 – 100 ppm<br>Resolution: 0.1 ppm<br>Expected service life: > 5 years | 1 / box | 6811525 |
| XXS $SO_2$<br>(option: with KX filter) | Sample Gases: sulphur dioxide<br>Measurement Range: 0 – 100 ppm<br>Resolution: 0.1 ppm<br>Expected service life: > 3 years | 1 / box | 6810885 |
| XXS $NO_2$ | Sample Gases: nitrogen dioxide<br>Measurement Range: 0 – 50 ppm<br>Resolution: 0.1 ppm<br>Expected service life: > 3 years | 1 / box | 6810884 |
| XXS $NO_2$ LC | Sample Gases: nitrogen dioxide<br>Measurement Range: 0 – 50 ppm<br>Resolution: 0.05 ppm<br>Expected service life: > 2 years | 1 / box | 6812600 |
| XXS $H_2S$-LC/CO-LC | Sample Gases: hydrogen sulphide, carbon monoxide<br>Measurement Range: 0 to 100 ppm, 0 to 2,000 ppm<br>Resolution: 0.1 ppm, 1 ppm<br>Expected service life: > 3 years | 1 / box | 6813280 |
| XXS $O_2$/CO-LC | Sample Gases: oxygen, carbon monoxide<br>Measurement Range: 0 to 25 Vol. %, 0 to 2,000 ppm<br>Resolution: 0.1 Vol. %, 1 ppm<br>Expected service life: > 3 years | 1 / box | 6813275 |
| XXS $O_2$/$H_2S$-LC | Sample Gases: oxygen hydrogen sulphide<br>Measurement Range: 0 – 2,000 ppm<br>Resolution: 2 ppm<br>Expected service life: > 3 years | 1 / box | 6814137 |
| XXS CO $H_2$-CP<br>(with compensation for hydrogen) | Sample Gases: carbon monoxide<br>Measurement Range: 0 – 2,000 ppm<br>Resolution: 2 ppm<br>Expected service life: > 3 years | 1 / box | 6811950 |
| XXS $O_2$ 100 | Sample Gases: oxygen<br>Measurement Range: 0 to 100 Vol. %<br>Resolution: 0.5 Vol. %<br>Expected service life: > 3 years | 1 / box | 6812385 |
| XXS CO HC | Sample Gases: carbon monoxide<br>Measurement Range: 0 – 10,000 ppm<br>Resolution: 5 ppm<br>Expected service life: > 3 years | 1 / box | 6812010 |

04

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **DrägerSensors®** | | | |
| XXS $H_2S$ HC | Sample Gases: hydrogen sulphide<br>Measurement Range: 0 – 1,000 ppm<br>Resolution: 2 ppm<br>Expected service life: > 3 years | 1 / box | 6812015 |
| XXS $PH_3$ | Sample Gases: phosphine, other compounds available<br>Measurement Range: 0 to 20 ppm<br>Resolution: 0.01 ppm<br>Expected service life: > 3 years | 1 / box | 6810886 |
| XXS $PH_3$ HC | Sample Gases: phosphine<br>Measurement Range: 0 – 20 ppm<br>Resolution: 0.01 ppm<br>Expected service life: > 3 years | 1 / box | 6812020 |
| XXS HCN | Sample Gases: carbon monoxide<br>Measurement Range: 0 – 2,000 ppm<br>Resolution: 1 ppm<br>Expected service life: > 5 years | 1 / box | 6810887 |
| XXS HCN PC | Sample Gases: hydrogen cyanide<br>Measurement Range: 0 to 50 ppm<br>Resolution: 0.5 ppm<br>Expected service life: > 1.5 years | 1 / box | 6813165 |
| XXS $NH_3$ | Sample Gases: carbon monoxide<br>Measurement Range: 0 bis 300 ppm<br>Resolution: 1 ppm<br>Expected service life: > 2 years | 1 / box | 6810888 |
| XXS $CO_2$ | Sample Gases: carbon dioxide<br>Measurement Range: 0 to 5 Vol. %<br>Resolution: 0.1 Vol. %<br>Expected service life: > 1.25 years | 1 / box | 6810889 |
| XXS OV | Sample Gases: ethylene oxide, other compounds available<br>Measurement Range: 0 – 200 ppm EO<br>Resolution: 0.5 ppm EO<br>Expected service life: > 5 years | 1 / box | 6811530 |
| XXS OV-A | Sample Gases: ethylene oxide, other compounds available<br>Measurement Range: 0 – 200 ppm EO<br>Resolution: 1 ppm EO<br>Expected service life: > 2 years | 1 / box | 6811535 |
| XXS NO | Sample Gases: nitric oxide<br>Measurement Range: 0 to 200 ppm<br>Resolution: 0.1 ppm<br>Expected service life: > 2 years | 1 / box | 6811545 |

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **DrägerSensors®** | | | |
| XXS $H_2$ | Sample Gases: hydrogen<br>Measurement Range: 0 to 2,000 ppm<br>Resolution: 5 ppm<br>Expected service life: > 2 years | 1 / box | 6812370 |
| XXS $H_2$ HC | Sample Gases: hydrogen<br>Measurement Range: 0 to 4 Vol. %<br>Resolution: 0.01 Vol. %<br>Expected service life: > 2 years | 1 / box | 6812025 |
| XXS Odorant | Sample Gases: tetrahydrothiophene, other compounds available<br>Measurement Range: 0 – 40 ppm<br>Resolution: 0.5 ppm<br>Expected service life: > 2 years | 1 / box | 6812535 |
| XXS Amine | Sample Gases: methylamine, other compounds available<br>Measurement Range: 0 – 100 ppm<br>Resolution: 1 ppm<br>Expected service life: > 1.5 years | 1 / box | 6812545 |
| XXS $Cl_2$ | Sample Gases: chlorine, other compounds available<br>Measurement Range: 0 – 20 ppm<br>Resolution: 0.05 ppm<br>Expected service life: > 2 years | 1 / box | 6810890 |
| XXS $O_3$ (Ozone) | Sample Gases: carbon monoxide<br>Measurement Range: 0 to 10 ppm<br>Resolution: 0.01 ppm<br>Expected service life: > 2 years | 1 / box | 6811540 |
| XXS $COCl_2$ | Sample Gases: phosgene<br>Measurement Range: 0 to 10 ppm<br>Resolution: 0.01 ppm<br>Expected service life: > 0.5 years | 1 / box | 6812005 |

CatEx SR: T90 response time < 15 s (specified for methane/propane measuring gas), other response times: see DrägerSensor® & gas detection device handbook

1) Manufacturer's warranty: 3 years, The statutory rights for defects remain unaffected

2) Special calibration for the Ex sensor is possible (default: setting) methane, further target gas calibration and cross calibration is possible). CatEx SR, sample gas >methane< option: Automatic measuring range switching for measuring gas methane (2 sensitivity calibrations required)

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Power supply units/chargers** | | | |
| Charging set Basic consisting of a charging module and a plug-in power supply (worldwide) | | | 8320333 |
| Battery and charging set (2.0): NiMH supply unit T4 with charging module and power supply unit (complete set) | | | 3703889 |
| NiMH supply unit T4 (2.0) (contents included in the scope of delivery in part numbers 37 03 850) | | | 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 |
| **Pump accessories** | | | |
| Dräger X-am® Pump (includes USB charger, wall plug, and shoulder strap). Case not included. | | | 8327115 |
| 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 FKM hose, 3.2 mm, with adapters | | | 8325705 |
| 10 m FKM hose, 3.2 mm, with adapters | | | 8325706 |
| 25 m FKM hose, 3.2 mm, with adapters | | | 8325707 |
| 45 m 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 FKM hose | | | 8327117 |
| Empty case, with space for X-am® 1/2/5x00, charging accessories, probe, gas cylinder, pump, 3 m hose and much more. | | | 8327112 |
| Other probes and hoses | | | On Request |

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Calibration accessories** | | | |
| Calibration adapter for Dräger X-am® 1/2/5x00 | | | 8318752 |
| Further versions and accessories Dräger X-dock® accessories | | | 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 |
| Test gas: $CH_4$ 2.5 Vol. %, $O_2$ 17 Vol. %, CO 100 ppm, $H_2S$ 25 ppm | | | 4594655 |
| Test gas: Other types | | | Please contact Dräger. |
| Other accessories (hoses, valves, etc.) | | | Please contact Dräger. |
| **Accessories for measured vakue aquisition and configuration** | | | |
| Dräger CC Vision | | | Freeware (www.draeger.com/software) |
| Dräger GasVision licence key | | | 8325646 Trial version (www.draeger.com/software) |
| USB DIRA with USB cable, infrared USB communication adapter (note: Positioning is done with the calibration is made with the calibration adapter 8318752). | | | 8317409 |
| **Dräger Gas Detection Connect** | | | |
| Intro Licence includes: Access, infrastructure, connection of up to 99 X-dock stations, 5,000 credits, valid for one year after activation. | | | 3719332 |
| Basic Licence includes: IT infrastructure (data storage, maintenance, automatic feature updates, troubleshooting). 24/7 support, access | | | 3719809 |
| Asset licence includes: Definable number of X-dock stations, requires the basic licence | | | 3719810 |
| Asset Lite includes: One X-dock station, non-expandable, does not require a base licence | | | 3719811 |
| 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 bag | | | 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) (with adhesive tape) | | | 3703898 |
| Seal ring extractor (for changing XXS sensors)<br>(Selected sensors are supplied with a similar tool ex works) | | | R21402 |

## Technical Data

| | | |
|---|---|---|
| Dimensions (H x W 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 | |
| Ambient conditions | Matrix display with high resolution | -20 to +50°C (-4 to 122 F)<br>(Measurement and storage)<br>-40 to +50°C (-40 to 122 F)<br>(Use in potentially explosive atmospheres) |
| | Pressure | 700 to 1,300 mbar; 20.7 to 38.4 inch Hg<br>10 to 95% RH |
| | Humidity | 10 to 95 % r.h.<br>5 to 95 % r.h. short term |
| | Protection class | IP 68 |
| Alarms | Visual | 3 LED 'red' (gas alarms)<br>3 LED 'yellow' (device alarms) |
| | Acoustic | Multi-tone > 90 dB at 30 cm (12 in) |
| | Vibration | |
| Energy supply | NiMH battery, rechargeable, replaceable by user | |
| Bluetooth® | Bluetooth 5.0 (disabled for some countries outside the EU and outside North America, but can be retrofitted. Contact DrägerService.) | |

## Technical Data

| | | |
|---|---|---|
| Operating times | For CatEx SR and PID sensor: typical 12 h (Bluetooth® active),<br>For IR sensor: typical 50 h (Bluetooth® active)<br>Operating with electrochemical sensors only: typical 100 h | |
| Charging time | < 4 hours | |
| Ready for Measurement | < 60 s after switch-on (CatEx SR and electrochemical sensors) | |
| 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) | |
| Approvals<br>Marking Explosion protection | ATEX | I M1 Ex da ia I Ma<br>II 1G Ex da ia IIC T4 Ga (usable in Ex-Zone 0) |
| | IECEx | Ex da ia I Ma<br>Ex da ia IIC T4 Ga (usable in Ex-Zone 0) |
| | cCSAus (USA and Canada) | CSA approval cCSAus<br>Class I, Zone 0, AEx da ia IIC T4/T3 Ga<br>Class I, Division I, Groups A, B, C, D<br>Class II, Division 1, Groups E, F, G |
| | EAC | Contact Dräger for availability |
| | Directives | 2014/34/EU (ATEX)<br>2014/53/EU (RED)<br>2011/65/EU (RoHS) |
| Manufacturer's warranty | 4 years for the device (electronics and housing) | |
| | 5 years for the following sensors: XXS CO LC, XXS H2S LC, XXS O2<br>Other sensors: See DrägerSensor® & gas detection device handbook | |
| | 3 years for: LEL CatEx SR | |
| | 2 years for: O2 PR | |
| | 1 year for the power supply (accumulator) | |

# 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 $O_2$, CO, $H_2S$, $NO_2$ and $SO_2$. 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

D-406-2018

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

## Dräger X-am® 3500

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **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, $O_2$ (without charging equipment)* | | 1 / box | 8328412 |
| Dräger X-am® 3500 Ex, $O_2$, $H_2S$ LC (without charging equipment)* | | 1 / box | 8328414 |
| Dräger X-am® 3500 Ex, $O_2$, CO LC (without charging equipment)* | | 1 / box | 8328416 |
| Dräger X-am® 3500 Ex, $O_2$, CO LC, $H_2S$ LC (without charging equipment)* | | 1 / box | 8328418 |
| Dräger X-am® 3500 Ex, $O_2$, CO LC, $H_2S$ LC Set (with charging equipment)* | | 1 / box | 8328419 |
| Dräger X-am® 3500 Ex, $O_2$, CO LC, $NO_2$ (without charging equipment)* | | 1 / box | 8328422 |
| Dräger X-am® 3500 Ex, $O_2$, $H_2S$ LC, $SO_2$ (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<br>Resolution 1 % LEL | 1 / box | 6812950 |
| DrägerSensor® XXS $O_2$** | Measurement Range 0–25 vol%<br>Resolution 0.1 vol% | 1 / box | 6810881 |
| DrägerSensor® XXS CO LC** | Measurement Range 0–2,000 ppm<br>Resolution 1 ppm | 1 / box | 6813210 |
| DrägerSensor® XXS $H_2S$ LC** | Measurement Range 0–200 ppm<br>Resolution 0.1 ppm | 1 / box | 6811525 |
| DrägerSensor® XXS $NO_2$ | Measurement Range 0–50 ppm<br>Resolution 0.1 ppm | 1 / box | 6810884 |
| DrägerSensor® XXS $SO_2$ | Measurement Range 0–100 ppm<br>Resolution 0.1 ppm | 1 / box | 6810885 |
| **Power supply unit** | | | |
| Energy supply (incl. back housing) | (included as standard) | 1 / box | 8326817 |
| **Charging accessories** | | | |
| Inductive charger for charging 1 device | | 1 / box | 8325825 |
| Adapter for power plug | | 1 / box | 8325736 |

* 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

# 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 |
| **Pump accessories** | | | |
| 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 |
| **Probes and Hoses** | | | |
| 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 |
| GP600 Probe (plastic), with Luer connection | | | 8328667 |
| 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. | | | |
| **Calibration accessories** | | | |
| 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 (www.draeger.com/software) | | |
| 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<br>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),<br>3 LED 'yellow' (device alarms) |
| | Acoustic | Multi-tone, typically 100 dB(A) at 30 cm (12 in) |
| | Vibration | |

## 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<br>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 | |

# 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)**

D-6491-2017

**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**

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **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% $CH_4$ Resolution: 1 % LEL | 1 / box | 6812950 |
| Cat-Ex 125 PR Gas* | Measurement Range: 0–100 % LEL, 0–100 vol% $CH_4$ Resolution: 1 % LEL | 1 / box | 6813080 |
| Dual IR Ex/$CO_2$* | Measurement Range: 0–100 % LEL, 0–100 vol% $CH_4$, 0–5 vol% $CO_2$ Resolution: 1 % LEL, 0.2 vol%, 0.01 vol% $CO_2$ or 50 ppm $CO_2$ | 1 / box | 6851880 |
| Dual IR Ex/$CO_2$ HC* | Measurement Range: Ex 0-100 %LEL, 0-100 %Vol - CO2 0-100 %Vol; Resolution: Ex 1 %LEL - CO2 0.1 %Vol | 1 / box | 6800276 |
| IR Ex* | Measurement Range: 0–100 % LEL, 0–100 vol% $CH_4$ Resolution: 1 % LEL, 0.2 vol% | 1 / box | 6851881 |
| IR $CO_2$ | Measurement Range: 00–5 vol% $CO_2$ Resolution: 0.01 vol% $CO_2$ or 50 ppm $CO_2$ | 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 $O_2$** | Measurement Range: 0–25 vol% Resolution: 0.1 vol% | 1 / box | 6810881 |
| DrägerSensor® XXS $O_2$ 100 | Measurement Range: 0–100 vol% Resolution: 0.5 vol% | 1 / box | 6812385 |
| DrägerSensor® XXS O2 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<br>Resolution: 1 ppm | 1 / box | 6813210 |
| DrägerSensor® XXS CO HC | Measurement Range: 0–10,000 ppm<br>Resolution: 5 ppm | 1 / box | 6812010 |
| DrägerSensor® XXS CO/$H_2$ compensated | Measurement Range: 0–2,000 ppm CO<br>Resolution: 2 ppm | 1 / box | 6811950 |
| DrägerSensor® XXS $H_2S$ LC** | Measurement Range: 0–200 ppm<br>Resolution: 0.1 ppm | 1 / box | 6811525 |
| DrägerSensor® XXS $H_2S$ HC | Measurement Range: 0–1,000 ppm<br>Resolution: 2 ppm | 1 / box | 6812015 |
| DrägerSensor® XXS CO LC/$H_2S$ LC | Measurement Range: 0–2,000 ppm CO/, 0–100 ppm $H_2S$ Resolution: 0–100 ppm $H_2S$, 0.1 ppm $H_2S$ | 1 / box | 6813280 |
| DrägerSensor® XXS CO LC/$O_2$ | Measurement Range: 0–2,000 ppm CO/, 0–25 vol%<br>Resolution: 1 ppm CO, 1 vol% $O_2$ | 1 / box | 6813275 |
| Dual Hydrogen Sulfide (H2S) LC/Oxygen (O2) XXS | Measurement Range: 0-100 PPM H2S 0.1 ppm 2 - Yr<br>Resolution: 0-25.0% Vol O2 0.1%Vol | 368 | 6814137 |
| DrägerSensor® XXS NO | Measurement Range: 0–200 ppm<br>Resolution: 0.1 ppm | 1 / box | 6811545 |
| DrägerSensor® XXS $NO_2$ | Measurement Range: 0–50 ppm<br>Resolution: 0.1 ppm | 1 / box | 6810884 |
| DrägerSensor® XXS $NO_2$ LC | Measurement Range: 0–50 ppm<br>Resolution: 0.02 ppm | 1 / box | 6812600 |
| DrägerSensor® XXS $SO_2$ | Measurement Range: 0–100 ppm<br>Resolution: 0.1 ppm | 1 / box | 6810885 |
| DrägerSensor® XXS $PH_3$ | Measurement Range: 0–20 ppm<br>Resolution: 0.01 ppm | 1 / box | 6810886 |
| DrägerSensor® XXS $PH_3$ HC | Measurement Range: 0–2,000 ppm<br>Resolution: 1 ppm | 1 / box | 6812020 |
| DrägerSensor® XXS HCN | Measurement Range: 0–50 ppm<br>Resolution: 0.1 ppm | 1 / box | 6810887 |
| DrägerSensor® XXS HCN PC | Measurement Range: 0–50 ppm<br>Resolution: 0.5 ppm | 1 / box | 6813165 |
| DrägerSensor® XXS $NH_3$ | Measurement Range: 0–300 ppm<br>Resolution: 1 ppm | 1 / box | 6810888 |
| DrägerSensor® XXS $CO_2$ | Measurement Range: 0–5 vol%<br>Resolution: 0.1 vol% | 1 / box | 6810889 |
| DrägerSensor® XXS $Cl_2$ | Measurement Range: 0–20 ppm<br>Resolution: 0.05 ppm | 1 / box | 6810890 |
| DrägerSensor® XXS $H_2$ | Measurement Range: 0–2,000 ppm<br>Resolution: 5 ppm | 1 / box | 6812370 |
| DrägerSensor® XXS H2 HC | Measurement Range: 0–4 vol%<br>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<br>Resolution: 0.5 ppm | 1 / box | 6811530 |
| DrägerSensor® XXS OV-A | Measurement Range: 0–200 ppm<br>Resolution: 1 ppm | 1 / box | 6811535 |
| DrägerSensor® XXS Amine | Measurement Range: 0–100 ppm<br>Resolution: 1 ppm | 1 / box | 6812545 |
| DrägerSensor® XXS Odorant | Measurement Range: 0–40 ppm<br>Resolution: 0.5 ppm | 1 / box | 6812535 |
| DrägerSensor® XXS $COCl_2$ | Measurement Range: 0–10 ppm<br>Resolution: 0.01 ppm | 1 / box | 6812005 |
| DrägerSensor® XXS Ozone | Measurement Range: 0–10 ppm<br>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<br>- Requires 8325736 adapter | (Included as standard, deselectable) | 1 / box | 8321849 |
| Power plug 100-240 VAC; 6.25 A, for charging up to 20 devices<br>- 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<br>- 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<br>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),<br>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 | |

## 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<br>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<br>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 | |

# 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

D-806-2018

D-815-2018-RT

**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. |
|---|---|---|---|

## Dräger X-Pid® 9500

| 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 |
| Bar Probe GP600, length 48 cm with FKM sampling hose | | 1 / box | 8328667 |

## 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<br>can be increased at low ambient temperatures/ configuration of the life signal | |
| Operating time | Typically 6 h, reduces with lower ambient temperatures | |

## Technical Data

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

## Technical Data

| List of Dräger X-pid® 9500 target compounds | | |
|---|---|---|
| Target compound | Chemical Formula | CAS number |
| Hexane, n- | C6H14 | 110-54-3 |
| Hydrogen sulfide | H2S | 7783-06-4 |
| Isobutylene | C4H8 | 115-11-7 |
| Isopropanol | C3H8O | 67-63-0 |
| Methyl acrylate | C4H6O2 | 96-33-3 |
| Methyl bromide | CH3Br | 74-83-9 |
| Methyl methacrylate | C5H8O2 | 80-62-6 |
| Methylbutyraldehyde ,2- | C5H10O | 96-17-3 |
| Phosphine | PH3 | 7803-51-2 |
| Propanol , 1- | C3H8O | 71-23-8 |
| Propylene oxide | C3H6O | 75-56-9 |
| Styrene | C8H8 | 100-42-5 |
| Tetrachloroethylene | C2Cl4 | 127-18-4 |
| Tetrahydrofuran | C4H8O | 109-99-9 |
| Toluene | C7H8 | 108-88-3 |
| Trichloroethylene | C2HCl3 | 79-01-6 |
| Vinyl acetate | C4H6O2 | 108-05-4 |
| Vinyl chloride | C2H3Cl | 75-01-4 |
| Xylene, m- | C8H10 | 108-38-3 |
| Xylene, o- | C8H10 | 95-47-6 |
| Xylene, p- | C8H10 | 106-42-3 |
| Butanone, 2- | C4H8O | 78-93-3 |
| Butyl acrylate | C7H12O2 | 141-32-2 |
| Chlorobenzene | C6H5Cl | 108-90-7 |
| Epichlorohydrin | C3H5ClO | 106-89-8 |
| Ethyl acetate | C4H8O2 | 141-78-6 |

# Dräger X-zone® 5800
## Area Monitoring

Dräger's X-zone® 5800 brings a safer, more effective way to monitor hazardous gases- reinventing 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. |
|---|---|---|---|
| **Dräger X-zone® 5800** | | | |
| **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® | www.draeger.com | | |
| USB DIRA with USB cable | | 1 / box | 8317409 |

## 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)<br>Pressure 700 to 1,300 hPa<br>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.),<br>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)<br>Depending on sensor equipment / configuration of the life signal<br>Indefinite operating time with EX power supply | |
| Charging time | Approx. 14 h<br>Flexible power supply: External 100 – 240 V charger (worldwide) or inductive wireless charger | |
| Pump operation | Maximum hose length: 45 m (147 ft.) | |
| Alarm output | Potential-free alarm contact for intrinsically safe circuits (6-pole);<br>< 20 V to 0.25 A (0.15 A constant current);<br>Resisting load | |
| Radio transmission | Worldwide license-free ISM frequencies<br>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<br>II 1G Ex ia IIC T3 Ga<br>II 2G Ex ia d IIC T4 Gb |
| | IECEx | Ex ia IIC T3 Ga<br>Ex ia d IIC T4 Gb<br>Ex ia I Ma |
| | CSA/US | Class I, zone 0, AEx ia IIC T3 Ga<br>Class I, zone 1, AEx ia d IIC T4 Gb |

# Dräger X-dock® 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. |
|---|---|---|---|
| **Dräger X-dock® 5300/6300/6600** | | | |
| 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<br>Limit to 1 module<br>*Order Needed Regulator(s) Separately | 1 / box | 8321880 |
| 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).<br>Limit to 1 module<br>*Order Needed Regulator(s) Separately | 1 / box | 8321881 |
| 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<br>Limit to 1 module<br>*Order Needed Regulator(s) Separately | 1 / box | 8321882 |
| 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<br>*Order Needed Regulator(s) and Power Supply Separately | 1 / box | 8321900 |
| 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<br>*Order Needed Regulator(s) and Power Supply Separately | 1 / box | 8321901 |
| 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<br>With an additional charging function<br>(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<br>With an additional charging function | 1 / box | 8321894 |

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Software licenses** | | | |
| XDM Network License (1 year) | | | 8328606 |
| XDM Network License Subscription (Min. 2 years) | | | 8328607 |
| Only for renewal | | | |
| **Dräger Gas Detection Connect** | | | |
| GDC Intro License<br>includes: Access, infrastructure, connection of up to 99 X-dock stations, 5,000 credits, valid for one year after activation. | | | 3719332 |
| GDC Basic License<br>includes: IT infrastructure (data storage, maintenance, automatic feature updates, troubleshooting). 24/7 support, access | | | 3719809 |
| GDC Asset License<br>includes: Definable number of X-dock stations, requires the Basic License | | | 3719810 |
| GDC Asset Lite<br>includes: One X-dock station, non-expandable, does not require a Basic License | | | 3719811 |
| GDC Credits<br>includes: Definable number of credits for sending live data, orderable in packages of 1000 credits. | | | 3719814 |
| **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 $Cl_2$) | | 1 / box | 4594112 |
| Sampling hose, FKM Tubing, 6 m (20 ft) (not for $Cl_2$) | | 1 / box | 4594114 |
| Sampling hose, FKM Tubing, 30 m (100 ft) (not for $Cl_2$) | | 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 |

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| 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. | | | |
| **Power Supplies** | | | |
| 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 |
| **Mounting Accessories** | | | |
| 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

| Dräger X-dock® 5300/6300/6600 | |
|---|---|
| Weight | X-dock® Master Controller: Approx. 1.5 kg (3.3 lb)<br>X-dock® Module Pac®: Approx. .89 kg (1.98 lb)<br>X-dock® Module X-am® 125: Approx. .91 kg (2 lb)<br>X-dock® Module X-am® 125+: Approx. .96 kg (2.11 lb)<br>X-dock® Module X-am® 8000: Approx. 1.22 kg (2.7 lb)<br>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) |
| **Gas connections** | |
| 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 |
| **Connections** | |
| USB 2.0 | 3 USB 2.0 devices/1 USB host |
| Network connection | Yes: Ethernet |
| Internal Memory Size | 8GB |

# Dräger Pac® 6000
## Single-Gas Detector

The Dräger Pac® 6000 disposable personal gas detector measures CO, $H_2S$, $SO_2$ or $O_2$ 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.

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger Pac® 6000** | | | |
| **Dräger Pac® 6000** | | | |
| Dräger Pac® 6000 CO | Measurement Range: 0 – 2,000 ppm<br>Alarm thresholds A1/A2: 35 / 50 ppm | 1 / box | 8326369 |
| Dräger Pac® 6000 $H_2S$ | Measurement Range: 0 – 200 ppm<br>Alarm thresholds A1/A2: 10 / 15 ppm | 1 / box | 8326368 |
| Dräger Pac® 6000 $O_2$ | Measurement Range: 0 – 25 Vol.-%<br>Alarm thresholds A1/A2: 19.5 / 23.5 Vol.-% | 1 / box | 8327612 |
| Dräger Pac® 6000 $SO_2$ | Measurement Range: 0 – 100 ppm<br>Alarm thresholds A1/A2: 0.5 / 1 ppm | 1 / box | 8328273 |
| Dräger Pac® 6000 CO (Canada) | Measurement Range: 0 – 2,000 ppm<br>Alarm thresholds A1/A2: 25 / 50 ppm | 1 / box | 8327611 |
| Dräger Pac® 6000 | Measurement Range: As per customer request<br>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 www.draeger.com | | | |
| 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 | 3703866 |

## 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 ($O_2$ 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)<br>(briefly down to -40 °F/ -40 °C for 1 hr, depending on sensor) |
| Approvals | cCSAus, IECEx, ATEX, CE |

# Dräger Pac® 6500
## Single-Sensor Detector

The robust Dräger Pac® 6500 is your reliable companion under tough conditions. The personal single-gas detection device measures CO, $H_2S$, $SO_2$ or $O_2$ 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**

**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. |
|---|---|---|---|
| **Dräger Pac® 6500** | | | |
| **Dräger Pac® 6500** | | | |
| Dräger Pac® 6500 CO | Measurement Range: 0 – 2,000 ppm<br>Alarm thresholds A1/A2: 35 / 50 ppm | 1 / box | 8327614 |
| Dräger Pac® 6500 $H_2S$ | Measurement Range: 0 – 200 ppm<br>Alarm thresholds A1/A2: 10 / 15 ppm | 1 / box | 8327613 |
| Dräger Pac® 6500 $O_2$ | Measurement Range: 0 – 25 Vol.-%<br>Alarm thresholds A1/A2: 19.5 / 23.5 Vol.-% | 1 / box | 8327616 |
| Dräger Pac® 6500 $SO_2$ | Measurement Range: 0 – 100 ppm<br>Alarm thresholds A1/A2: 0.5 / 1 ppm | 1 / box | 8328274 |
| Dräger Pac® 6500 CO (Canada) | Measurement Range: 0 – 2,000 ppm<br>Alarm thresholds A1/A2: 25 / 50 ppm | 1 / box | 8327615 |
| Dräger Pac® 6500 | Measurement Range: As per customer request<br>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 www.draeger.com | | | |
| 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 | 3703866 |

## 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 ($O_2$ 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<br>(briefly down to -40 °F / -40 °C for 1 hr, depending on sensor) |
| Approvals | cCSAus, IECEx, ATEX, CE |

# Dräger Pac® 8000
## Single-Gas Detector

With the robust Dräger Pac® 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 $NO_2$, $O_3$ or $COCl_2$.

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**

**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. |
|---|---|---|---|
| **Dräger Pac® 8000** | | | |
| Dräger Pac® 8000 | | | |
| Dräger Pac® 8000 NO | Measurement Range: 0 – 50 ppm<br>Alarm thresholds A1/A2: 25 / 50 ppm | 1 / box | 8326350 |
| Dräger Pac® 8000 $CO_2$ | Measurement Range: 0 – 5 Vol.%<br>Alarm thresholds A1/A2: 0.5 / 1 Vol.% | 1 / box | 8326351 |
| Dräger Pac® 8000 $Cl_2$ | Measurement Range: 0 – 20 ppm<br>Alarm thresholds A1/A2: 0.5 / 1 ppm | 1 / box | 8326352 |
| Dräger Pac® 8000 HCN | Measurement Range: 0 – 50 ppm<br>Alarm thresholds A1/A2: 2.5 / 4.5 ppm | 1 / box | 8328276 |
| Dräger Pac® 8000 $NH_3$ | Measurement Range: 0 – 300 ppm<br>Alarm thresholds A1/A2: 25 / 50 ppm | 1 / box | 8328277 |
| Dräger Pac® 8000 $PH_3$ | Measurement Range: 0 – 20 ppm<br>Alarm thresholds A1/A2: 0.1 / 0.2 ppm | 1 / box | 8326355 |
| Dräger Pac® 8000 OV | Measurement Range: 0 – 200 ppm<br>Alarm thresholds A1/A2: 10 / 20 ppm | 1 / box | 8326356 |
| Dräger Pac® 8000 OV-A | Measurement Range: 0 – 200 ppm<br>Alarm thresholds A1/A2: 10 / 20 ppm | 1 / box | 8326357 |
| Dräger Pac® 8000 $NO_2$ | Measurement Range: 0 – 50 ppm<br>Alarm thresholds A1/A2: 2.5 / 5 ppm | 1 / box | 8328275 |
| Dräger Pac® 8000 Ozone | Measurement Range: 0 – 10 ppm<br>Alarm thresholds A1/A2: 0.1 / 0.2 ppm | 1 / box | 8326359 |
| Dräger Pac® 8000 Phosgene | Measurement Range: 0 – 10 ppm<br>Alarm thresholds A1/A2: 0.1 / 0.2 ppm | 1 / box | 8326360 |
| Dräger Pac® 8000 | Measurement Range: As per customer request<br>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 www.draeger.com | | | |
| 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 | 3703866 |

## 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<br>(briefly down to -40 °F/ -40 °C for 1 hr, depending on sensor) |
| Approvals | cCSAus, IECEx, ATEX, CE |

# 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: $H_2S$ with CO, $O_2$ with CO, or $H_2S$ with $O_2$.

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**

## Dräger Pac® 8500

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger Pac® 8500** | | | |
| Dräger Pac® 8500 $H_2S$/CO | Measurement Range: 0 – 100 ppm $H_2S$, 0 – 2,000 ppm CO Alarm thresholds A1/A2: 10 / 15 ppm $H_2S$, 35 / 50 ppm CO | 1 / box | 8328263 |
| Dräger Pac® 8500 $O_2$/CO | Measurement Range: 0 – 25 Vol.-% $O_2$, 0 – 2,000 ppm CO Alarm thresholds A1/A2: 19.5 / 23.5 Vol.-% $O_2$, 35 / 50 ppm CO | 1 / box | 8328265 |
| Dräger Pac® 8500 CO-$H_2$ CP | Measurement Range: 0 – 2,000 ppm Alarm thresholds A1/A2: 35 / 50 ppm | 1 / box | 8327617 |
| Dräger Pac® 8500 $H_2S$/$O_2$ | Measurement Range: 0-100 ppm $H_2S$, 0-25 % $O_2$ Alarm thresholds A1/A2: 5/10 ppm $H_2S$, 19;19.5 / 22.5;23.0 Vol % $O_2$ | 1 / box | 3702251 |
| Dräger Pac® 8500 CO-$H_2$ 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 www.draeger.com | | | |
| 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 | 3703866 |

## 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 ($O_2$ 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<br>(briefly down to -40 °F/ -40 °C for 1 hr, depending on sensor) |
| Approvals | cCSAus, IECEx, ATEX, CE |

# Dräger X-am® 5100
## Single-Gas Detector

For manufacturing petrochemical products, aseptic packing, or handling of rocket fuel: the Dräger X-am® 5100 portable single-gas detector ensures that you use the safest methods possible for handling HF, HCl, $H2O_2$ 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

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

**Large display**
All values at a glance

# Portable Gas Detection

## Dräger X-am® 5100

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **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 |
| **Sensors** | | | |
| DrägerSensor XS EC HF/HCl | Measurement Range: 0 – 30 ppm<br>Resolution: 0.1 ppm<br>Response time (t50): 60 seconds | 1 / box | 6809140 |
| DrägerSensor XS EC $H_2O_2$ | Measurement Range: 0 – 20 ppm<br>Resolution: 0.1 ppm<br>Response time (t90): 60 seconds | 1 / box | 6809170 |
| DrägerSensor XS EC Hydrazine | Measurement Range: 0 – 3 ppm<br>Resolution: 0.01 ppm<br>Response time (t90): 180 seconds | 1 / box | 6809190 |
| **Power supply units** | | | |
| NiMH power pack T4 | | 1 / box | 8318704 |
| **Charging accessories** | | | |
| Charging module | | 1 / box | 8318639 |
| Rechargeable battery and charging technology set<br>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 |
| **Calibration accessories** | | | |
| 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 |
| $SO_2$ 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<br>> 1000 h at a recording interval of 1 value per minute | |
| Approvals | ATEX | I M1 Ex ia I Ma<br>II 1G Ex ia IIC T4/T3 Ga<br>- 20 °C ≤ Ta ≤ + 55/40 °C |
| | IECEx | Ex ia I Ma<br>Ex ia IIC T4/T3 Ga<br>- 20 °C ≤ Ta ≤ + 55/40 °C |
| | CSA | Class I, Div. 1, Groups A,B,C,D TC T4/T3<br>Class I, Zone 0, A/Ex ia IIC T4/T3 /Ga |
| CE-mark | Electromagnetic compatibility Directive 2004 / 108 / EG; EN 50270:2006 | |

# 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.

**SmartLINC**
Smart device for receiving Bluetooth® readings from gas and rad detectors

**Dräger X-am® 8000**
Removable from kit for personal monitoring, up to 7 gases

**TSI filter/particulate monitor**

**FirstNet® cellular capability**

**Mirion Accurad™ PRD for gamma radiation detection**

## Technical Data

| X-site Live Kit Specification | |
|---|---|
| Run time | 14 hours on full charge |
| Communication Range | Cellular/Internet – unlimited<br>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<br>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<br>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 µrem/h (0.5 µSv/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) |
| **Smart LINC Specification** | |
| 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<br>Image: BMP, WBMP, GIF, JPEG, PNG, WEBP |

## 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 coeffcients/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) |

# X-am® Pump
## External pump

The Dräger X-am® Pump is an external pump for the Dräger X-am® 2500, 2800, 5000, 5600, and 5800 multigas monitors. The Pump is designed for clearance measurement, continuous monitoring, and personal use. The Pump automatically switches on when it is connected to an operating X-am® device. The user can easily switch from diffusion to pump mode in less than 60 seconds.

Connection for hoses with 3 or 5 mm in diameter, up to 147 ft (45 m) in length

Rechargeable battery (charging via micro USB port)

Water and dust filter to protect the pump

Easy to use—no buttons

X-am® interface with self-starting pump

Warning signals on X-am® devices remain visible

Ex zone 0 approval

Fastening clip—for fast and safe connection to an X-am gas monitor

# Portable Gas Detection

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger X-am® Pump** | | | |
| Dräger X-am® Pump | | | |
| Dräger X-am® Pump incl. USB charger and shoulder strap | | 1 / box | 8327115 |
| USB power supply | | 1 / box | 8327102 |
| USB 2.0 Cable | | 1 / box | 8327108 |
| Shoulder strap | | 1 / box | 8319386 |
| Leather case | | 1 / box | 8327103 |
| Case for Dräger X-am® Pump | | 1 / box | 8327104 |
| CSE Set Dräger X-am® Pump | | 1 / box | 8327105 |
| Filter with hose connector (3 mm and 5 mm) | | 1 / box | 8319364 |
| Telescopic probe ES 150 | | 1 / box | 8316533 |
| Float probe | | 1 / box | 8327654 |
| 5 m (16 ft) FKM hose (diameter 3 mm) | | 1 / box | 8325705 |

## Technical Data

| | |
|---|---|
| Dimensions | 2.6 x 6.8 x 1.5 in (67 x 175 x 38 mm)(without X-am®)<br>2.6 x 8.6 x 2.2 in (67 x 220 x 55 mm) (with X-am®) |
| Weight | approx. 7 oz (200 g) |
| Operating temperature | -4 °F to 122 °F (briefly -40 °F) -20 °C to 50 °C (briefly -40 °C) |
| Temperature when charging | 32 °F to 95 °F (0 – 35 °C) |
| Charging time | < 6 hours |
| Operating time | Up to 20 hours, depending on type of application and temperature |
| Maximum hose length | Remote Display of Meter's Faceplate |
| Air flow volume | Comprehensive Map View/Tool (GIS) with Export/Import |
| Storage temperature | Up to 1 month -4 °F to 140 °F (-20 °C to 60 °C),<br>otherwise -4 °F to 113 °F (-20 °C to 45 °C) |
| Pressure | 700 to 1,300 hPa |
| Air humidity | 0 to 95 % RH |
| IP protection class | IP67 |
| Approvals | c_CSA_us<br>ATEX/IECEx (Zone 0 T4 and M1)<br>DNV-GL<br>CE label |

05

# Dräger-Tubes® and MicroTubes


**Gas Detection Tubes**
Short-Term Dräger-Tubes® 160
Dräger Diffusion Tubes 168

**Pump for Gas Detection Tubes**
Dräger accuro 170

**Test Kits**
Dräger HazMat Simultest Kit 172
Dräger Civil Defense Simultest (CDS) 174
Dräger Simultaneous Test Sets 175

**Dräger Compressed Air and Air Flow Kits**
Dräger Aerotest® Simultan HP 178
Dräger Aerotest® Alpha 180
Dräger Aerotest® MultiTest med. Int. 182
Dräger Aerotest® SimultanTest $CO_2$ 184
Air Flow Indicator 186

**Gas Detection Microtubes**
Dräger X-act® 7000 188
Dräger MicroTubes 190

05

# 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® 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.

# 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<br>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<br>2 - 10 ppm | 5<br>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<br>5 - 80 ppm | 1<br>5 | 8101661 |
| Carbon Dioxide 100/a | 100 - 3,000 ppm | 4 | 8101811 |
| Carbon Dioxide 0.1%/a | 0.5 - 6 Vol.-%<br>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 |

05

# 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[2] |
| 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<br>5 - 150 ppm | 30 sec<br>2.5 | CH25601 |
| Carbon Monoxide 8/a | 8 - 150 ppm | 2 | CH19701 |
| Carbon Monoxide 10/b | 100 - 3,000 ppm<br>10 - 300 ppm | 20 sec<br>4 | CH20601 |
| Carbon Monoxide 0.3%/b | 0.3 - 7 Vol.-% | 30 sec | CH29901[2] |
| 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<br>3 - 30 ppm | 3<br>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<br>0.1 - 1 ppm | 7.5<br>2.5 | 8103491 |
| Chlorobenzene 5/a (5) | 5 - 200 ppm | 3 | 6728761 |
| Chloroform 2/b (5) | 20 - 80 ppm | 3 | 6728861[2] |
| 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/m³ | 8 | 6728681 |
| Cyanide 2/a | 2 - 15 mg/m³ | 2 | 6728791[2] |
| Cyanogen Chloride 0.25/a | 0.25 - 5 ppm | 5 | CH19801 |
| Cyclohexane 40/a | 40 - 200 ppm<br>500 - 3000 ppm | 75 sec<br>15 sec | 8103671 |
| Cyclohexylamine 2/a | 2 - 30 ppm | 4 | 6728931 |
| Diesel Fuel | 25 - 200 mg/m³ | 30 | 8103475[2] |
| Diethyl Ether 100/a | 100 - 4000 ppm | 2.5 | 6730501 |
| Dimethyl Formamide 10/b | 10 - 40 ppm | 3 | 6718501 |
| Dimethyl Sulphate 0.005/c (9) | 0.005 - 0.05 ppm | 50 | 6718701 |

05

# 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/m3 | 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<br>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<br>300 - 2,500 ppm | 5<br>1 | 8103681 |
| Hydrazine 0.01/a | 0.01 - 0.4 ppm<br>0.5 - 0.6 ppm | 20<br>1 | 8103351 |
| Hydrazine 0.25/a | 0.25 - 10 ppm<br>0.1 - 5 ppm | 1<br>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<br>3 - 20 ppm | 2<br>40 sec | 8103481 |
| Hydrochloric Acid 1/a | 1 - 10 ppm | 2 | CH29501 |
| Hydrochloric Acid 50/a | 500 - 5,000 ppm<br>50 - 500 ppm | 30 sec<br>4 | 6728181 |
| Hydrochloric Acid /Nitric Acid 1/a | | | 8101681 |
| - Hydrochloric Acid | 1 - 10 ppm | 1.5 | |
| - Nitric Acid | 1 - 15 ppm | 3 | |

05

# 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<br>5 - 50 ppm | 30 sec<br>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<br>0.5 - 15 ppm | 2<br>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<br>1 - 20 ppm | 20 sec<br>3 | 6719001 |
| Hydrogen Sulphide 1/d | 10 - 200 ppm<br>1 - 20 ppm | 1<br>10 | 8101831 |
| Hydrogen Sulphide 2/a | 20 - 200 ppm<br>2 - 20 ppm | 20 sec<br>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 H2S + SO2 0.2%/a | 0.2 - 7 Vol.-% | 2 | CH28201 |
| Iodine 0.1/a | 1 - 5 ppm<br>0.1 - 0.6 ppm | 1<br>5 | 8103521 |
| i-Propanol 50/a | 50 -4000 ppm | 2.5 | 8103741 |
| Mercaptan 0.1/a | 0.1 -2.5 ppm<br>3 - 15 ppm | 3<br>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/m3 | 10 | CH23101 |
| Methanol 20/a | 20 - 250 ppm<br>200 - 5000 ppm | 6<br>2 | 8103801 |
| Methyl Acrylate 5/a 5 | 5 - 200 ppm | 5 | 6728161 |
| Methyl Bromide 0.1/a | 0.1 - 5 ppm<br>5 - 50 ppm | 8<br>4 | 3706301 |

05

# 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[2] |
| Natural Gas Odorization, | 3 mg/m³ | 3 | 8103071 |
| Tertiary Butylmercaptan | 1 mg/m³ | 5 | |
| Natural Gas Test (5) | qualitative | 100 | CH20001[2] |
| n-Butanol 10/a | 10 - 250 ppm<br>250 - 2000 ppm | 6<br>1 | 8103861 |
| Nickel Tetracarbonyl 0.1/a (9) | 0.1 - 1 ppm | 5 | CH19501 |
| Nitric Acid 1/a | 5 - 50 ppm<br>1 - 15 ppm | 2<br>4 | 6728311 |
| Nitrogen Dioxide 0.1/a | 0,1 - 5 ppm<br>5 - 30 ppm | 75 sec<br>15 sec | 8103631 |
| Nitrogen Dioxide 2/c | 5 - 100 ppm<br>2 - 50 ppm | 1<br>2 | 6719101 |
| Nitrous Fumes 0.2/a | 0,2 - 6 ppm | 75 sec | 8103661 |
| Nitrous Fumes 2/a | 5 - 100 ppm<br>2 - 50 ppm | 1<br>2 | CH31001 |
| Nitrous Fumes 20/a | 20 - 500 ppm | 30 sec | 6724001 |
| Nitrous Fumes 50/b | 50 - 1,000 ppm<br>500 - 4,000 ppm | 40 sec<br>80 sec | 8103941 |
| Oil 10/a-P | 0.1 - 1 mg/m³ | 25 | 6728371 |
| Oil Mist 1/a | 1 - 10 mg/m³ | 25 | 6733031 |
| Olefine 0.05%/a | | 5 | 6733031 |
| - Propylene | 0.06 - 3.2 Vol.-% | | |
| - Butylene<br>Organ. Arsenic Compounds | 0.04 - 2.4 Vol -%<br>0.3 mg/m³ as AsH 3 | 3 | CH26303 |
| and Arsine<br>Organic Basic Nitrogen Compounds | 1 mg/m³ | 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<br>0.1 - 1 ppm | 3<br>9 | 8101551 |
| Perchloroethylene 2/a | 20 - 300 ppm<br>2 - 40 ppm | 30 sec<br>3 | 8101501 |
| Petroleum Hydrocarbons 10/a | 10 - 300 ppm | 1 | 8101691 |

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# 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<br>0.02 - 0.6 ppm | 6<br>12 | 8101521 |
| Phosgene 0.25/c | 0.25 - 5 ppm<br>0.01 - 0.3 ppm | 1<br>8 | CH28301 |
| Phosphine 0.01/a | 0.1 - 1 ppm<br>0.01 - 0.3 ppm | 2.5<br>8 | 8101611 |
| Phosphine 0.1/c | 0.5 - 3 ppm<br>0.1 - 1.0 ppm | 1<br>2.5 | 8103711 |
| Phosphine 0.1/b | 1 - 15 ppm | 20 sec | 8103341 |
| in Acetylene | 0.1 - 1 ppm | 4 | |
| Phosphine 1/a | 10 - 100 ppm<br>1 - 20 ppm | 2<br>10 | 8101801 |
| Phosphine 25/a | 200 - 10,000 ppm<br>25 - 900 ppm | 1.5<br>13 | 8101621 |
| 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<br>0.5 - 5 ppm | 3<br>6 | 6728491 |
| 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/m³ | 100 | 6728781 |
| Sulfuryl Fluoride 1/a (5) | 1 - 5 ppm | 3 | 8103471 |
| Tertiary Butylmercaptan | 3 - 15 mg/m³ | 3 | 8103071 |
| Natural Gas Odorization | 1 - 10 mg/m³ | 5 | |

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# 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<br>4 - 40 mg/m³ | 10 | 8101341 |
| Thioether | 1 mg/m³ | 1.5 | CH25803 |
| Toluene 5/b | 50 - 300 ppm<br>5 - 80 ppm | 2<br>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<br>2 - 50 ppm | 1.5<br>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<br>0.5 - 5 ppm | 30 sec<br>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<br>1 - 8 mg/L | 20 sec<br>40 sec | 8101781 |
| Water Vapour 50/a | 50 - 1000 l bs/mmcf | 40 sec | 8103021 |
| Xylene 10/a | 10 -400 ppm | 1 | 6733161 |

[2] Tubes with 6 to 12 months shelf life

# 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. |
|---|---|---|---|
| **Dräger Diffusion Tubes** | | | |
| Dräger diffusion tubes with direct indication | | | |
| Ammonia 20/a-D | 20 - 1500 ppm*hours<br>2.5 - 200 ppm for 8 hours | 10/pkg | 8101301 |
| Butadiene 10/a-D | 10 - 300 ppm*hours<br>1.3 - 40 ppm for 8 hours | 10/pkg | 8101161 |
| Nitrogen Dioxide 10/a-D | 10 - 200 ppm*hours<br>1.3 - 25 ppm for 8 hours | 10/pkg | 8101111 |

# 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.

**Integrated end of stroke indicator**
Clear indication when a stroke is ended

**Integrated stroke counter**
For easy monitoring of the number of strokes made

**Integrated tube opener**
Simple scoring of the tubes using blade for clean opening

**Hard-wearing EPDM rubber housing**
Robust rubber mixture for reliable operation

**Pump bellows**
Precise volumes for a long period of time

**Pump bellows**
Precise volumes for a long period of time

# Dräger-Tubes® and MicroTubes

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger accuro** | | | |
| 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 |
| Extension hose 30 m | *Contact product manager | 1 / box | 8325839 |
| Hot Air Probe | Stack gas measurements up to 650 °C | 1 / box | CH00213 |
| 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 $cm^3$ | |
| 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 |
| Approvals | CE-certified (EN 0158) | |
| | ATEX | I M1<br>II 1GD IIB 85°C T6<br>II 2G IIC T6<br>-20 °C ≤ Ta ≤ +50 °C |
| | DIN EN ISO | 17621 |

# 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.

D-31344-2011

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## 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.<br>A rugged Pelican carrying case protects the kits contents. | |
| HazMat Simultest Kit | 4056098 |
| HazMat Simultest Carrying Case with foam inserts only | 4056458 |
| 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 & $NO_2$) | 8101735 |
| Simultaneous Test Set II<br>Detects sulfur dioxide, chlorine, hydrogen sulfide, carbon dioxide and phosgene. | 8101736 |
| Simultaneous Test Set III<br>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 |

| Accessories | | | |
|---|---|---|---|
| Extension hose 1 m | Incl. adapter for Simultaneous Test Set | 1 / box | 6400561 |
| Extension hose 1 m | Incl. adapter for Tube opener TO 7000 | 1 / box | 6401200 |

# 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. |
|---|---|---|---|

## Dräger Civil Defense Simultest Kit

| Civil Defense Simultest Kit | | | |
|---|---|---|---|
| Includes: accuro bellows pump wiith 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 |
| 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<br>Thioether (S-Mustard)<br>Phosgene<br>Hydrocyanic Acid<br>Organic Arsenic Compounds & Arsine (Lewisite) Organic Basic Nitrogen Compounds (N-Mustard) | | | 8103140 |
| Simultaneous Set V detects<br>Cyanogen Chloride<br>Thioether (S-Mustard)<br>Phosgene<br>Chlorine<br>Phosphoric Acid Esters (Nerve agents e.g. GA, GB, GD) | | | 8103200 |
| **Accessories** | | | |
| Extension hose 1 m | Incl. adapter for Simultaneous Test Set | 1 / box | 6400561 |
| Extension hose 1 m | Incl. adapter for Tube opener TO 7000 | 1 / box | 6401200 |

# 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. |
|---|---|---|---|
| **Dräger Simultaneous Test Sets** | | | |
| Simultest Set I (inorganic gases) | Detection of: acid gases, basic gases, carbon monoxide, hydrocyanic acid & nitrous gases (NO & $NO_2$) | 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 |
| Accessories | | | |
| Extension hose 1 m | Incl. adapter for Simultaneous Test Set | 1 / box | 6400561 |

# 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, $CO_2$, $H_2O$ 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. |
|---|---|---|---|

## Dräger Aerotest Simultan HP

| Dräger Aerotest Simultan HP | | |
|---|---|---|
| Comprised of one high pressure reducer, CGA-347 adapter,<br>measuring device for 4 Dräger-Tubes<br>impactor adapter, stopwatch, tube opener Dräger TO 7000,<br>bubble test hose, instruction for use, transport case, kit w/o Dräger-Tubes | | 6525980 |
| **Dräger Simultan HP complete with Dräger Tubes:** | | 6525990 |
| pack of 10 Dräger Oil Impactors | | 8103560 |
| box of 10 Dräger-Tubes, $CO_2$ 100/a-P | | 6728521 |
| box of 10 Dräger-Tubes CO 5/a-P | | 6728511 |
| box of 10 Dräger-Tubes $H_2O$ 20/a-P | | 8103061 |
| Adapter, oil impactor | | 8103557 |
| Measuring arrangement (4), HP | | 6525927 |

## 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)<br>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 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. |
|---|---|---|---|

## 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 complete 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 |
| Measuring arrangement (4), Alpha | 6527325 |

## 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)<br>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 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. |
|---|---|---|---|

## Dräger MultiTest med. Int.

| Dräger MultiTest med. Int. | |
|---|---|
| Dräger MultiTest med. Int. (Impactor and tubes not included) comprising of 1 O2 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 ($CO_2$) 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 ($SO_2$) 0.5/a, | 6728491 |
| box of 10 Dräger-Tubes hydrogen sulfide ($H_2S$) 1/d, | 8101831 |
| box of 10 Dräger-Tubes water vapor ($H_2O$) 20/a-P | 8103061 |
| Adapter, oil impactor | 8103557 |
| Measuring arrangement (7), MultiTest med. Int. | 6527321 |

## 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)<br>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 Aerotest® SimultanTest $CO_2$
## Gas Detection Tubes

The Dräger SimultanTest $CO_2$ 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. |
|---|---|---|---|

## Dräger SimultanTest $CO_2$

| Dräger SimultanTest $CO_2$ | |
|---|---|
| Dräger SimultanTest $CO_2$: (Impactor and tubes not included) comprising of 1 $O_2$ 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 $CO_2$ complete with Dräger-Tubes:** | 6526170 |
| box of 10 Dräger-Tubes nitrous gases (NOX) 0.2/a, | 8103661 |
| box of 10 Dräger-Tubes ammonia ($NH_3$) 2/a, | 6733231 |
| box of 10 Dräger-Tubes phosphine ($PH_3$) 0.1/c, | 8103711 |
| box of 10 Dräger-Tubes carbon monoxide (CO) 5/a-P, | 6728511 |
| box of 10 Dräger-Tubes sulfur dioxide ($SO_2$) 1/a, | CH31701 |
| box of 10 Dräger-Tubes hydrogen sulfide ($H_2S$) 0.2/a, | 8101461 |
| box of 10 Dräger-Tubes water vapor ($H_2O$) 5/a-P, | 6728531 |
| Measuring arrangement (7), $CO_2$ | 6526744 |

## Technical Data

| Dräger SimultanTest $CO_2$ | |
|---|---|
| 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 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.

ST-66-98

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## 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 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.

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

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

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

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

**Automatic drive**
For retracting the Dräger MicroTubes

D-20022-2020

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# Dräger-Tubes® and MicroTubes

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Pump accessories** | | | |
| Dräger X-act® 7000 Coupler | | 1 / box | 8610810 |
| Dräger X-am® Pump | | 1 / box | 8327115 |
| Dräger X-act 7000® Device | | 1 / box | 8610800 |
| **Other accessories** | | | |
| Dräger X-act® 7000 Pre-tube holder | | 1 / box | 3701985 |
| Dräger Tubes® ppb-Booster Basic | | 10 / box | 3702013 |
| H2S filter pre-tube for use with Mercury MicroTube | | 10 / box | 3716630 |
| 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 |
| AA battery | | 5/pkg | 3703133 |
| **Probes** | | | |
| Rigid probe set, GP 600 (50 cm / 20 in) with 1 m / 39 in FKM hose | | 1 / box | 8328667 |
| Flexible, semi-rigid probe (70 vm / 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 |
| **Hoses** | | | |
| 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 |
| **Adapter** | | | |
| Luer Adapter Set 3 + 5 mm | | 1 / box | 8328213 |

# Dräger-Tubes® and MicroTubes

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger X-act® 7000** | | | |
| **Dräger X-act® 7000** | | | |
| Consisting of: Basic device X-act® 7000 incl. batteries, shoulder strap complete, MicroTube Demo, Torx T10 screwdrawer, USB cable 2 m with Mini-connection | | | 8610800 |
| **Dräger MicroTubes*** | | | |
| Acetic Acid | Test Range: 2-50 ppm<br>Test time: 20-170 seconds | 10 / pkg | 8610330 |
| Acetone | Test Range: 25 - 5,000 ppm<br>Test time: 20 - 500 seconds | 10 / pkg | 8610470 |
| Alcohol (Methanol) | Test Range: 10 - 5,000 ppm<br>Test time: 20 - 450 seconds | 10 / pkg | 8610380 |
| Alcohol (Ethanol) | Test Range: 5 - 2,500 ppm<br>Test time: 20 - 450 seconds | 10 / pkg | 8610380 |
| Alcohol (i-Propanol) | Test Range: 10 - 5,000 ppm<br>Test time: 20 - 450 seconds | 10 / pkg | 8610380 |
| Alcohol (n-Butanol) | Test Range: 7 - 3,330 ppm<br>Test time: 20 - 450 seconds | 10 / pkg | 8610380 |
| Ammonia | Test Range: 1 - 100 ppm<br>Test time: 10 - 75 seconds | 10 / pkg | 8610130 |
| Ammonia | Test Range: 100 - 2,500 ppm<br>Test time: 3 - 45 seconds | 10 / pkg | 8610020 |
| Benzene[1,2] | Test Range: 1 – 150 ppb<br>Test time: 100 – 900 seconds | 10 / pkg | 8610600[1] |
| Benzene[1] | Test Range: 0.15 – 10 ppm<br>Test time: 25 – 150 seconds | 10 / pkg | 8610030[1] |
| Benzene | Test Range: 10 - 100 ppm<br>Test Time: 10 - 75 seconds | 10 / pkg | 8610280 |
| 1,3-Butadiene[2] | Test Range: 25 – 500 ppb<br>Test time: 200 – 600 seconds | 10 / pkg | 8610460 |
| 1,3-Butadiene | Test Range: 0.5 – 25 ppm<br>Test time: 10 – 280 seconds | 10 / pkg | 8610300 |
| Carbon Dioxide | Test Range: 200 - 50,000 ppm<br>Test time: 2 - 120 seconds | 10 / pkg | 8610190 |
| Carbon Monoxide | Test Range: 2 - 1,000 ppm<br>Test time: 5 - 300 seconds | 10 / pkg | 8610080 |
| Chlorine | Test Range: 50 - 5,000 ppb<br>Test time: 10 - 400 seconds | 10 / pkg | 8610010 |
| Demo | Test Range: NA<br>Test time: approx. 30 seconds | 10 / pkg | 8610290 |
| Ethylene oxide | Test Range: 25 – 250 ppb<br>Test time: 150 – 600 seconds | 10 / pkg | 8610200 |

05

# Dräger-Tubes® and MicroTubes

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| Ethylene oxide | Test Range: 0.25 – 10 ppm<br>Test time: 100 – 500 seconds | 10 / pkg | 8610580 |
| Formaldehyde | Test Range: 5 – 150 ppb<br>Test time: 360 – 960 seconds | 10 / pkg | 8610540 |
| Formaldehyde | Test Range: 0.15 – 3 ppm<br>Test time: 300 – 600 seconds | 10 / pkg | 8610100 |
| Hydrochloric Acid | Test Range: 0.5 - 25 ppm<br>Test time: 10 - 100 seconds | 10 / pkg | 8610090 |
| Hydrocyanic Acid | Test Range: 0.5 - 50 ppm<br>Test time: 20 - 180 seconds | 10 / pkg | 8610520 |
| Hydrogen Sulfide | Test Range: 0.1 - 50 ppm<br>Test time: 5 - 960 seconds | 10 / pkg | 8610050 |
| Hydrogen Sulfide | Test Range: 100 - 2,000 ppm<br>Test Time: 15 - 180 seconds | 10 / pkg | 8610220 |
| Mercaptan | Test Range: 50 - 6,000 ppb<br>Test time: 15 - 360 seconds | 10 / pkg | 8610360 |
| Mercury[3] | Test Range: 0.005 – 0.25 mg/m³<br>Test time: 240 – 1,200 seconds | 10 / pkg | 8610350 |
| Methylene Chloride[2] | Test Range: 10-500 ppm<br>Test time: 180-720 seconds | 10 / pkg | 8610510 |
| MTBE | Test Range: 2 - 200 ppm<br>Test Time: 60 - 450 seconds | 10 / pkg | 8610530 |
| Nitrogen Dioxide | Test Range: 0.25 - 50 ppm<br>Test time: 10 - 210 seconds | 10 / pkg | 8610120 |
| Nitrous Fumes | Test Range: 0.25 - 50 ppm<br>Test time: 5 - 120 seconds | 10 / pkg | 8610060 |
| Ozone | Test Range: 10 - 1,000 ppb<br>Test Time: 50 - 840 seconds | 10 / pkg | 8610430 |
| Perchloroethylene | Test Range: 1 - 500 ppm<br>Test time: 25 - 240 seconds | 10 / pkg | 8610040 |
| Petroleum Hydrocarbons | Test Range: 10 - 300 ppm<br>Test time: 10 - 360 seconds | 10 / pkg | 8610270 |
| Phosgene | Test Range: 10 - 1,000 ppb<br>Test time: 10 - 300 seconds | 10 / pkg | 8610340 |
| Phosphine | Test Range: 50 - 5,000 ppb<br>Test time: 20 - 95 seconds | 10 / pkg | 8610400 |
| Sulfur Dioxide | Test Range: 0.05 - 5 ppm<br>Test time: 20 - 480 seconds | 10 / pkg | 8610110 |

| | | | |
|---|---|---|---|
| Toluene[1] | Test Range: 10 - 1,000 ppm<br>Test time: 6 - 360 seconds | 10 / pkg | 8610250[1] |
| Trichloroethylene | Test Range: 0.25 - 50 ppm<br>Test Time: 20 - 270 seconds | 10 / pkg | 8610320 |
| Vinyl Chloride | Test Range: 0.1 - 10ppm<br>Test Time: 15 - 660 seconds | 10 / pkg | 8610230 |
| Xylene[1] | Test Range: 10 - 1,000 ppm<br>Test time: 10 - 240 ppm | 10 / pkg | 8610260[1] |

Each MicroTube offers 10 tests
All MicroTubes have a 12 month shelf life
[1] MicroTubes to be stored at or below 50 °F; do not freeze
[2] MicroTubes requiring the ppb booster tube
[3] Use with the Hydrogen Sulfide pre-tube

## 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 |

06

# Alcohol and Drug Testing


**Alcohol and Drug Testing**

| | |
|---|---|
| Dräger Alcotest® 4000 | 194 |
| Dräger Alcotest® 5000 | 197 |
| Dräger Alcotest® 5820 | 200 |
| Dräger Alcotest® 6000 | 203 |
| Dräger Alcotest® 6820 DOT | 206 |
| Dräger Alcotest® 7000 | 209 |
| Dräger DrugTest 5000 | 212 |

# 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.

06

# Alcohol and Drug Testing

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger Alcotest® 4000** | | | |
| Dräger Alcotest® 4000 – USA | | | 3706325 |
| Dräger A4000 additional 5 mouthpieces, hygienically and individually packed | | | 8325250 |
| Microfiber bag | | | 8324994 |

# Alcohol and Drug Testing

## 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 |

# 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. |
|---|---|---|---|
| **Dräger Alcotest® 5000** | | | |
| Dräger Alcotest® 5000, V1 - FDA Compliant<br>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 | 0 to 0.006 %BAC<br>→ “Tick mark” symbol on the display screen means “No Alcohol Detected”, visually supported by a green LED. |
| | Over 0.006 %BAC<br>→ “X” symbol on the display screen means ‘Alcohol Detected’, visually supported by a red LED. |
| | Over 0.535 %BAC<br>→ Measuring range exceeded (↑↑↑) |
| Standard sampling | Sampling starts automatically when the minimum volume or predefined blowing time is reached.<br>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));<br>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;<br>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 |

06

# Alcohol and Drug Testing

## Technical Data

| | |
|---|---|
| Operating design | Test functions are started with the “OK” button;<br>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 |

# 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.

**Slide 'N' Click mouthpiece provides hygienic protection**

**Mouthpiece holder available for left or right side use**

**Color LEDs supplement display and for warning messages**

**Text shown on display ensures correct usage**

**Easy one-button operation using the OK button**

**Menu buttons for user and service menu**

**Housing meets IP54 protection rating**

06

# Alcohol and Drug Testing

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger Alcotest® 5820** | | | |
| 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);<br>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,<br>with one battery approx. 1,500 breath tests can be done. |

06

# Alcohol and Drug Testing

## Technical Data

| | |
|---|---|
| Mouthpiece adaption | Improved Slide 'N' Click mouthpiece attachment;<br>can be fitted for right or left orientation |
| Mouthpiece | Hygienically, individually packaged, with tamper-proof, non-obstructable air outlet,<br>mouthpiece ejector, and spacer between mouth and instrument housing |
| Operating concept | Measurement functions can be performed using just one button;<br>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)<br>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 |

# 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.

06

# Alcohol and Drug Testing

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger Alcotest® 6000** | | | |
| 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

## 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 |

# 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.

06

# Alcohol and Drug Testing

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger Alcotest® 6820 DOT KIT** | | | |
| 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 |

06

# Alcohol and Drug Testing

## Technical Data

| | |
|---|---|
| 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<br>Around 1,500 breath tests can be conducted with one set of batteries<br>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)<br>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 |

# 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.

**Mouthpiece and funnel attachment**

Two testing methods in one device

**2.4" TFT color display**

Clear presentation of information, notices and warnings

**Non-slip design**

Secure grip and easy handling due to rubber coating on sides

**Compartment for rechargeable or disposable batteries**

Optionally with permanently installed lithium battery or battery compartment for alkaline and other batteries

**Reflective hand strap**

Better visibility due to sewn-in threads

06

# Alcohol and Drug Testing

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **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 |

06

# Alcohol and Drug Testing

## 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<br>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<br>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) |
| IP protection class | IP 54 |
| Interface | USB-C |
| Bluetooth® | Bluetooth® Low Energy 5.0 |
| GPS | Optional |

# 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.

**Convenient carrying handle**
can easily be carried with one hand—even without bag

**Backlit color display**
clear menu navigation and results display—even in low light conditions

**Three-button operation**

**Robust housing**
also suitable for harsh outdoor environments

**Large analysis chamber opening**
automatic test run without manual intervention

06

# Alcohol and Drug Testing

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger DrugTest 5000** | | | |
| Dräger DrugTest 5000 Analyzer including power supply, connecting cable and instructions for use. | | | 8327900 |
| Consumables | | | |
| 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 |
| Accessories | | | |
| 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)<br>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 |

07

# Workshop Solution & Breathing Gas Supply


**Test Equipment**

Quaestor 6000 215
Quaestor 8000 218
Testor 2500 221
RZ 7000 224

**Filling Station for Oxygen Cylinders**

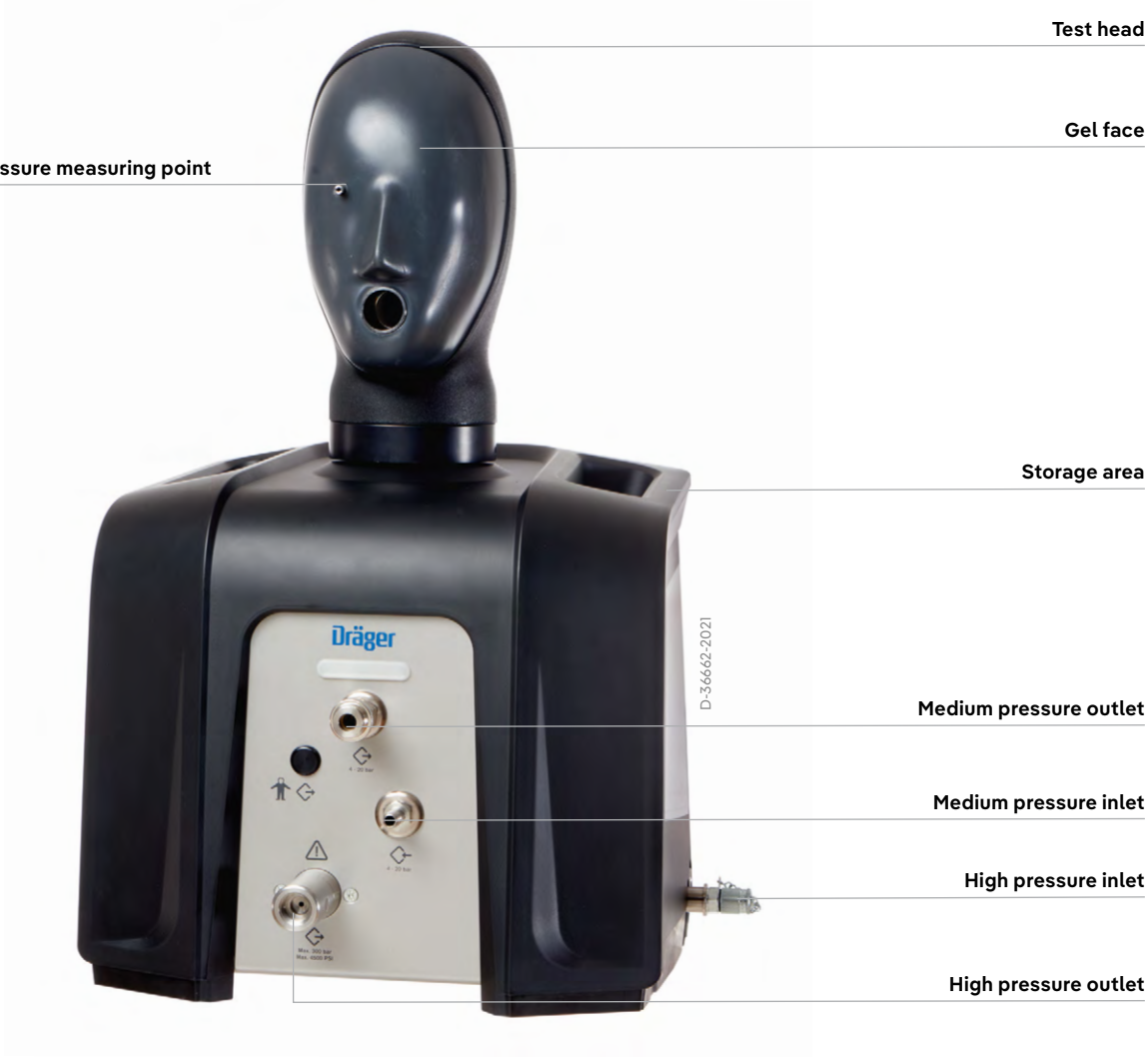
DOB 200 ECO 226
Oxygen Booster DOB-H 228

**Cleaning, Disinfecting and Drying**

Neutral Disinfectant Cleaner 230

# Dräger Quaestor 6000
## Test Equipment

All static and dynamic tests of the Dräger Quaestor 6000 take place semi-automatically 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. |
|---|---|---|---|
| **Dräger Quaestor 6000** | | | |
| 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, Minmiess (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 & Breathing Gas Supply

## 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 |

# 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 & Breathing Gas Supply

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger Quaestor 8000** | | | |
| 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., Minimess® (f) – 8 mm | | | 3717557 |
| Minimess® hose 1.5 m (female-female) | | | 3717558 |
| For the version Minimess® hose 3717558 one of following HP adapters must be ordered additionally: | | | |
| HP adapter 4500 psi, Minmiess (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 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 |
| | | | |
| Minimess® is a trademark owned by Hydrotechnik GmbH. | | | |
| | | | |
| 2216 Module | | | R58368 |
| 4500 psi Outlet | | | 3723208 |
| 2216 psi Outlet | | | 3723207 |
| Pressure Reducer | | | R57584 |

# Workshop Solution & Breathing Gas Supply

## 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) |
| | Flow $O_2$ for 1 – 3 l/min (CCBA) |
| External cable connections | 1 x USB interface to the PC |
| | 1 x 24 V power adapter for 110/230 V power supply |
| | 1 x connection for external microphone |
| Breathing frequency of the artificial lung | 5 to 40 strokes/min |
| Maximum breathing volume | 136 l/min |
| Tidal Volume | max. 3.4 l |

# 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 & Breathing Gas Supply

## Technical Data

| | |
|---|---|
| Dimensions (W x H x D) | 300 x 515 x 335 mm / 11.8 x 20.3 x 13.2 in |
| Weight Dräger Testor 2500 | 5.5 kg / 12 lb. 2 oz. |
| **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 |
| **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 & Breathing Gas Supply

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|
| **Dräger Testor 2500** | | | |
| Dräger Testor 2500 | Consisting of: Basic device, 4500 PSI test gauge, LDV test kit, IFU | | R62960 |
| **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 |

# 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.

**Digital Display**
Shows the start and end values and their difference

**The lithium ion battery**
enables testing for up to 24 hours

**Five position switch**
The different modes enable fast switching of test modes

**Air vent button**
for slow venting in two stages

**The click-adapter for the Dräger PSS® BG 4**
offers a safe connection to the BG 4 during the testing process

**Built-in hand pump**
The built-in hand pump makes extra test equipment unnecessary

**Rugged case,**
IP54 certified against dust and water (with locked lid), ideal for use on-the-go

# Workshop Solution & Breathing Gas Supply

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## 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 |

# 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. |
|---|---|---|---|

## 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 Nl/min |
| Medium | $O_2$ or with $O_2$ enriched breathing air |
| Power supply (Type B)<br>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 |
| | 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 |

# Dräger DOB-H
## Filling station for oxygen cylinders

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. |
|---|---|---|---|

## 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)<br>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 |

# 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**

07

# Workshop Solution & Breathing Gas Supply

| Product | Description | Packaging unit/type | Order No. |
|---|---|---|---|

## 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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DraegerGlobal

@DraegerNews

Draeger

# Respiratory products from Dräger

## 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, selfcontained 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 & Conditions

**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 extend 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.

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