



# Dräger X-act® 7000 Multi-Gas Detector

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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.

# Dräger X-act® 7000



# Benefits

## Measures the lowest-quantity concentrations with lab-quality analysis

Concentrations of hazardous substances in ambient workplace air must never exceed the defined limits. Monitoring these sometimes very low concentration levels is a responsible task. The Dräger X-act® 7000 in combination with Dräger MicroTubes is focused on measuring carcinogenic and toxic substances in the low ppb range. This sensitive testing system is based on colorimetric chemical sensors capable of replacing conventional laboratory analysis and providing precise results right on site. This saves time and money.

## More safety thanks to high selectivity

The substance-specific reactive layers and multiple pre-layers in the Dräger MicroTubes allow for selective gas testing. The various layers serve as a filter. During testing, they filter out other substances that occur in the workplace so that only the target substance is reflected in the test result. This significantly reduces cross-sensitivities and the number of false-positive test results.

## Explosion-proof and ready to use

The RFID tags applied to the Dräger MicroTubes contain all the calibration data that apply throughout their normal lifespan of one year. This eliminates the need for lengthy function tests and manual calibration. Because it works on the basis of mass-flow measurement, air pressure fluctuations have no influence on the device. Any possible temperature or humidity influences are already accounted for during the factory calibration. The analyzer is explosion-proof and certified under ATEX and CSA. The system is also dust- and splash-resistant in accordance with IP54. It also meets the requirements for electromagnetic compatibility under EN 61326-1.

## Easy to use

After an automatic self-test, the X-act® 7000 analysis system is immediately ready for use. It is suitable for testing with all available Dräger MicroTubes. Simply insert the right Dräger MicroTube for your testing needs. The automatic drive carefully draws the MicroTube in and positions it. Control your test using the 3-button control and 2.4 inch color display. When the test is complete, the green LED will glow and a message is displayed on the screen. You can store the test result, location and time in the internal data logger and read it later using the Dräger CC Vision software. The device is powered by five easily replaceable standard batteries. The life time of the recommended batteries lasts for more than ten hours of testing and can be read on the display.

## Also suitable for remote sampling

Using the coupler (connector piece), the Dräger X-am® Pump can be adapted to the X-act® 7000. This allows you to test for carcinogenic and toxic substances in the ppb range, even in hard-to-reach places like ducts, pipelines or tanks up to a distance of 45 metres (147.6 feet). Because the X-am Pump is also certified explosion-proof for Zone 0, it is perfectly suited for these tasks.

## System Components



D-3457-2023

### Dräger MicroTubes

With each set of MicroTubes, you can perform 10 tests. The concentrations of hazardous substances are shown on the X-act® 7000 display. Specific MicroTubes even allow you to perform tests in the ppb range. The RFID tag applied to the Dräger MicroTube set contains all the calibration data that apply throughout their normal lifespan of one year. This eliminates the need for lengthy function tests and manual calibration.

## Accessories



D-11862-2016

### Dräger X-am® Pump for Dräger X-act® 7000

The Dräger X-am® Pump is an external pump for portable gas detection devices. In combination with the X-act® 7000, it allows you to perform remote testing (for example, inside tanks or ducts). To use it, simply attach the pump to the Dräger X-act® 7000 using a coupler. Control the pump using the X-act® 7000 software.



D-3379-2019

### Coupler

The coupler is the connector between the Dräger X-act® 7000 analysis system and the Dräger X-am® Pump. It creates a secure, sealed connection between the two devices.

## Accessories

D-50851-2015



### FKM hose

Solvent-resistant

Available in four lengths:

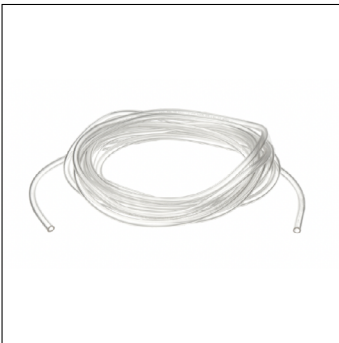
Inner diameter 3.2 mm, length 5 m (16.4 ft)

Inner diameter 3.2 mm, length 10 m (32.8 ft)

Inner diameter 3.2 mm, length 20 m (65.6 ft)

Inner diameter 3.2 mm, length 45 m (147.6 ft)

D-50855-2015



### PVC hose

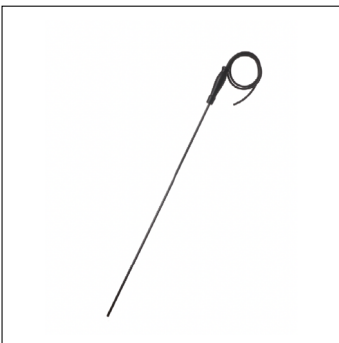
With PTFE inner-hose

Available in two lengths:

3 m (9.8 ft)

15 m (49.2 m)

D-25396-2009



### Probes

50 cm (20 in)– Rigid

70 cm (27 in)– Flexible, semi-rigid

90 cm (35 in)– Rigid

150 cm (59 in)– Telescopic

D-6222-2025



### Pre-tube holder

Pre-tube holders are needed to improve the sensitivity and selectivity of some Dräger MicroTubes even further. The pre-tube holder ensures a secure, sealed connection with the Dräger X-act® 7000.

## Services



### Product Service

Our product service provides support with different service packages– in our workshops or directly on your premises. Care, maintenance and servicing are crucial for safety and reliability– but careful maintenance and care are a must, even when it comes to commercial considerations. Preventive checks, ongoing care and use of original replacement parts improve the longevity of your investment.



### Training

The Dräger Academy has imparted well-founded and practical knowledge for over 40 years. With over 110 authorized trainers and more than 600 available topics, we conduct more than 2,400 training sessions per year. We equip your people with the knowledge they need for real-life situations and make sure they will be able to recall and readily apply that knowledge in their everyday work—especially in stressful situations. If you have specific needs, we can develop a customized training program to meet your individual requirements.



### Rental Service

From bridging a temporary shortage of equipment to procuring special equipment for applications involving specific requirements: If you only need to cover a temporary higher demand, then Dräger Rental Service with over 65,000 pieces of rental equipment is a economical alternative to purchasing. Fast, straightforward and with a wide range of additional services available upon request.



### Shutdown Safety Service

You need a comprehensive safety technology solution which equips you optimally for your project. You have to comply with many different legal requirements– even under intense time pressure. A potential conflict could arise between maximum efficiency and the highest possible degree of safety. We help you to establish a balance: Our Shutdown Safety Service is a solution which takes into account all of the requirements for a shutdown, and your individual needs in particular.

# Technical Data

| 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                    | Recommended annually                                                                                                    |
| Operating temperature          | 0 to +50 °C (+32 to +122 °F)                                                                                            |
| Storage temperature            | -20 to +55 °C (-4 to +131 °F) (Analyzer)                                                                                |
| Air pressure                   | +4 to +25 °C (+39 to +77 °F) (Dräger MicroTubes)<br>700 to 1,300 hPa                                                    |
| 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°                             |

## Specifications

|                        |                                                   |                                   |
|------------------------|---------------------------------------------------|-----------------------------------|
| Menu languages         | 30                                                |                                   |
| Operating time         | Approx. 600 minutes of testing time               |                                   |
| Power supply           | 5 x 1.5 v AA alkaline batteries                   |                                   |
| 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) |                                   |
| 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                  |                                   |

# Technical Data

## Dräger MicroTubes

| Description                     | Test range        | Test time (min-max) | Part number |
|---------------------------------|-------------------|---------------------|-------------|
| Acetic Acid                     | 2 - 50 ppm        | 20 - 170 seconds    | 8610330     |
| Acetone                         | 25- 5,000 ppm     | 20- 500 seconds     | 8610470     |
| Alcohol(Methanol)               | 10- 5,000 ppm     | 20- 450 seconds     | 8610380     |
| Alcohol (Ethanol)               | 5- 2,500 ppm      | 20- 450 seconds     | 8610380     |
| Alcohol (i-Propanol)            | 10- 5,000 ppm     | 20- 450 seconds     | 8610380     |
| Alcohol (n-Butanol)             | 7- 3,330 ppm      | 20- 450 seconds     | 8610380     |
| Ammonia                         | 1- 100 ppm        | 10- 75 seconds      | 8610130     |
| Ammonia                         | 100- 2,500 ppm    | 3- 45 seconds       | 8610020     |
| Benzene <sup>1,2</sup>          | 5 - 150 ppb       | 100 - 1,100 seconds | 8610600     |
| Benzene <sup>1</sup>            | 0.15- 10 ppm      | 25- 150 seconds     | 8610030     |
| Benzene                         | 10 - 100 ppm      | 10 - 75 seconds     | 8610280     |
| 1,3-Butadiene <sup>2</sup>      | 25- 500 ppb       | 200- 600 seconds    | 8610460     |
| 1,3-Butadiene                   | 0.5- 25 ppm       | 10- 280 seconds     | 8610300     |
| Carbon Dioxide                  | 200- 50,000 ppm   | 2- 120 seconds      | 8610190     |
| Carbon Monoxide                 | 2- 1,000 ppm      | 5- 300 seconds      | 8610080     |
| Chlorine                        | 50- 5,000 ppb     | 10- 400 seconds     | 8610010     |
| Demo                            | NA                | approx. 30 seconds  | 8610290     |
| Ethylene Oxide                  | 0.25- 10 ppm      | 150- 600 seconds    | 8610200     |
| Ethylene Oxide                  | 5- 150 ppb        | 100- 500 seconds    | 8610580     |
| Formaldehyde                    | 0.15- 3 ppm       | 360- 960 seconds    | 8610540     |
| Formaldehyde                    | 0.5- 25 ppm       | 300- 600 seconds    | 8610100     |
| Hydrochloric Acid               | 0.5- 50 ppm       | 10- 100 seconds     | 8610090     |
| Hydrochloric Acid               | 0.1- 50 ppm       | 20- 180 seconds     | 8610520     |
| Hydrogen Sulfide                | 100 - 2,000 ppm   | 5- 960 seconds      | 8610050     |
| Hydrogen Sulfide                | 0.005- 0.25 mg/m3 | 15 - 180 seconds    | 8610220     |
| Mercaptan                       | 50- 6,000 ppb     | 15- 360 seconds     | 8610360     |
| Mercury <sup>3</sup>            | 0.005- 0.25 mg/m3 | 240- 1,200 seconds  | 8610350     |
| Methylene Chloride <sup>2</sup> | 10 - 500 ppm      | 180 - 720 seconds   | 8610510     |
| MTBE                            | 2 - 200 ppm       | 60 - 450 seconds    | 8610530     |
| Nitrogen Dioxide                | 0.25- 50 ppm      | 10- 210 seconds     | 8610120     |
| Nitrous Fumes                   | 0.25- 50 ppm      | 5- 120 seconds      | 8610060     |
| Ozone                           | 10 - 1,000 ppb    | 50 - 840 seconds    | 8610430     |
| Perchloroethylene               | 1- 500 ppm        | 25- 240 seconds     | 8610040     |
| Petroleum Hydrocarbons          | 10- 3,000 ppm     | 10- 360 seconds     | 8610270     |
| Phosgene                        | 10- 1,000 ppb     | 10- 300 seconds     | 8610340     |
| Phosphine <sup>2</sup>          | 50 - 5,000 ppb    | 20 - 95 seconds     | 8610400     |
| Sulfur Dioxide                  | 0.05- 5 ppm       | 20- 480 seconds     | 8610110     |
| Toluene <sup>1</sup>            | 10- 1,000 ppm     | 6- 360 seconds      | 8610250     |
| Trichloroethylene               | 0.25 - 50 ppm     | 20 - 270 seconds    | 8610320     |
| Vinyl Chloride                  | 0.1 - 10 ppm      | 15 - 660 seconds    | 8610230     |
| Xylene <sup>1</sup>             | 10- 1,000 ppm     | 10- 240 seconds     | 8610260     |

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

# Ordering Information

## Dräger X-act® 7000

|                    |         |
|--------------------|---------|
| Dräger X-act® 7000 | 8610800 |
|--------------------|---------|

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

## Pump accessories

|                            |         |
|----------------------------|---------|
| Dräger X-act® 7000 Coupler | 8610810 |
|----------------------------|---------|

|                                                     |         |
|-----------------------------------------------------|---------|
| X-am® Pump, USB charger, wall plug & shoulder strap | 8327115 |
|-----------------------------------------------------|---------|

## Other accessories

|                                             |         |
|---------------------------------------------|---------|
| Dräger X-act® 7000 Original Pre-tube holder | 3701985 |
|---------------------------------------------|---------|

|                                    |         |
|------------------------------------|---------|
| Dräger X-act® 7000 Pre-tube holder | 3715575 |
|------------------------------------|---------|

|                                  |         |
|----------------------------------|---------|
| Dräger Tubes®, ppb-Booster Basic | 3702013 |
|----------------------------------|---------|

|                                                                 |         |
|-----------------------------------------------------------------|---------|
| H <sub>2</sub> S filter pre-tube for use with Mercury MicroTube | 3716630 |
|-----------------------------------------------------------------|---------|

|                      |         |
|----------------------|---------|
| Tube opener, TO 7000 | 6401200 |
|----------------------|---------|

|                        |         |
|------------------------|---------|
| Shoulder strap, compl. | 8326823 |
|------------------------|---------|

|                                 |         |
|---------------------------------|---------|
| Label holder for shoulder strap | 8326824 |
|---------------------------------|---------|

|                                |         |
|--------------------------------|---------|
| "Silver" Sticker Set, 5 pieces | 8327645 |
|--------------------------------|---------|

|                              |         |
|------------------------------|---------|
| "Blue" Sticker Set, 5 pieces | 8327646 |
|------------------------------|---------|

|                             |         |
|-----------------------------|---------|
| "Red" Sticker Set, 5 pieces | 8327647 |
|-----------------------------|---------|

|                               |         |
|-------------------------------|---------|
| "Green" Sticker Set, 5 pieces | 8327648 |
|-------------------------------|---------|

|                                |         |
|--------------------------------|---------|
| "Yellow" Sticker Set, 5 pieces | 8327649 |
|--------------------------------|---------|

|                                       |         |
|---------------------------------------|---------|
| Carry case, 470 x 365 x 190 mm, black | 3703690 |
|---------------------------------------|---------|

|                                 |         |
|---------------------------------|---------|
| Display protector film (3 pcs.) | 8326828 |
|---------------------------------|---------|

|                                      |         |
|--------------------------------------|---------|
| Dust and water filter for pump inlet | 8319364 |
|--------------------------------------|---------|

## Probes

|                                                                    |         |
|--------------------------------------------------------------------|---------|
| Rigid probe set, GP 600, (50 cm / 30 in) with 1 m / 39 in FKM hose | 8328667 |
|--------------------------------------------------------------------|---------|

|                                                                      |         |
|----------------------------------------------------------------------|---------|
| Flexible, semi-rigid probe (70 cm / 27 in) with 1 m / 39 in FKM hose | 8316531 |
|----------------------------------------------------------------------|---------|

|                                                                  |         |
|------------------------------------------------------------------|---------|
| Rigid fiberglass probe (90 cm / 35 in) with 1 m / 39 in FKM hose | 8316532 |
|------------------------------------------------------------------|---------|

|                                                      |         |
|------------------------------------------------------|---------|
| ESI50 Telescopic probe (max. length: 150 cm / 59 in) | 8316533 |
|------------------------------------------------------|---------|

## Ordering Information

### Hoses

|                                                           |         |
|-----------------------------------------------------------|---------|
| PTFE-lined PVC hose, 3 m (9.8 ft)                         | 8326980 |
| PTFE-lined PVC hose, 15 m (49.2 ft)                       | 4594679 |
| Replacement hose for probes, 2 m (6.6 ft)                 | 8318205 |
| FKM hose, inner diameter: 3.2 mm, length: 5 m (16.4 ft)   | 8325705 |
| FKM hose, inner diameter: 3.2 mm, length: 10 m (32.8 ft)  | 8325706 |
| FKM hose, inner diameter: 3.2 mm, length: 20 m (65.6 ft)  | 8325707 |
| FKM hose, inner diameter: 3.2 mm, length: 45 m (147.6 ft) | 8328212 |
| Hose connector, outer diameter: 5 mm (10 pcs.)            | 8320087 |

### Adapters

|                           |         |
|---------------------------|---------|
| Luer Adapter Set 3 + 5 mm | 8328213 |
|---------------------------|---------|

## Notes

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