

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

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



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

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

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

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

**Automatic drive**  
For retracting the Dräger MicroTubes

D-201022-2020

## Benefits

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### Multi-Gas Detector

- Opto-electronic analysis system for selective detection of carcinogenic and toxic substances
  - Lab quality measurement in ppb range
  - To be used with Dräger MicroTubes
  - With coupler and X-am pump suitable for CSE
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### 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 focussed on measuring carcinogenic and toxic substances in the low ppb range. This sensitive testing system is based on colorimetric chemical sensors. These are 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, for example. 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 greatly eliminates cross-sensitivities and reduces the number of false-positive test results and false alarms.

### 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 analyser is explosion-proof and certified under ATEX/IECEx for Zone 0. 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 colour 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.

## Benefits

### Also suitable for pump-assisted testing

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.



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System Components



D-33860-2019

### Dräger MicroTubes

With each set of MicroTubes, you can perform 10 tests in a row. 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-0962-2020

### 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.



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

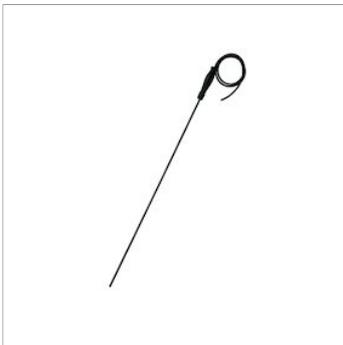
With PTFE inner-hose

Available in two lengths:

3 m (9.8 ft)

15 m (49.2 m)

## Accessories



D-25396-2009

### Telescopic probe

Available in four lengths:

70 cm (27.6 in)

90 cm (35.4 in)

100 cm (39.4 in)

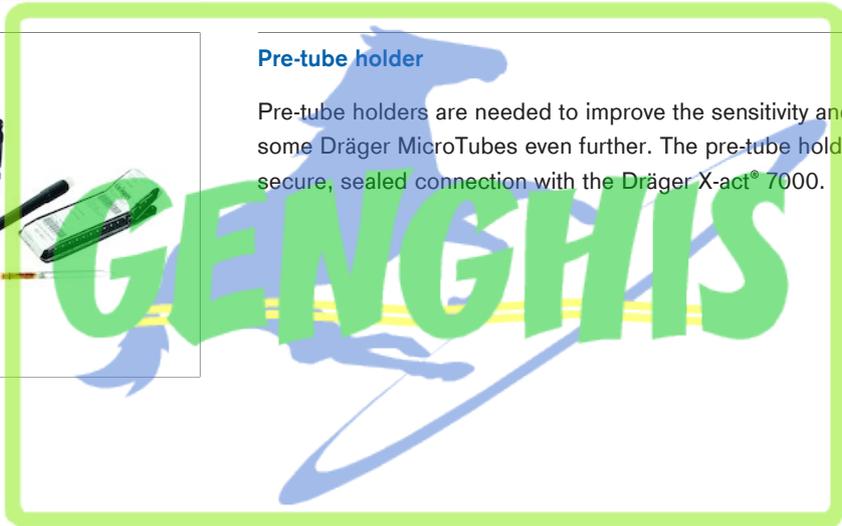
150 cm (59 in)



D-6549-2017

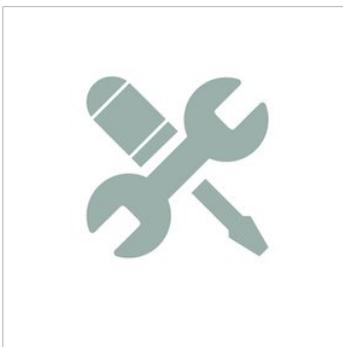
### Pre-tube holder

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.



## Place You Put Your Faith

### Services

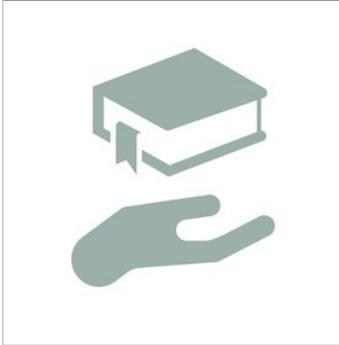


D-2331-2016

### 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.

## Services



### Training

The Dräger Academy has shared its solid, practical knowledge for over 40 years. We hold more than 2,400 training courses each year, on a range of over 600 topics, with more than 110 authorised trainers. We equip your staff with practical knowledge and ensure that what they learn can be applied effectively, both day-to-day and, more importantly, whenever critical situations occur. We will be pleased to develop a customised training programme for you.



### 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 DrägerRental Service with over 65,000 pieces of rental equipment is an economical alternative to purchasing. Fast, straightforward and with a wide range of additional services available upon request.



### Shutdown Safety Service

In need of a comprehensive safety solution? Is there a long list of legal requirements you have to meet, and are you pressed for time? Balancing maximum efficiency with optimal security can pose major challenges. We can help you achieve that balance. Our Shutdown Safety Service is a solution that takes into account all the necessities of downtime and especially your individual requirements.

## Technical Data

|                                |   |                    |
|--------------------------------|---|--------------------|
| Measuring range and resolution | Varies, depending on the Dräger MicroTubes in use   |                    |
| Typical testing time           | From 5 seconds to 20 minutes, 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 +40 °C   |                    |
| Storage temperature            | -20 to +60 °C (Analyser)<br>+4 to +25 °C (Dräger MicroTubes)  |                    |
| Air pressure                   | 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, colour 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 batteries   |                    |
| Dimensions (L x W x H)         | 195 mm x 85 mm x 70 mm  |                    |
| Approvals                      | ATEX / IECEx<br>cCSAus<br>Marine Approval<br>II 1G Ex ia IIC T4 Ga<br>Ex ia IIC T4 Ga;<br>Class I, Zone 0, AEx ia IIC T4 Ga<br>DNV GL |                    |
| Protection class               | IP54, dust- and splash-resistant  |                    |
| <b>Dräger MicroTubes</b>       |   |                    |
| <b>Description</b>             | <b>Test range</b>   | <b>Part number</b> |
| Ammonia                        | 1 – 100 ppm   | 86 10 130          |
| Ammonia                        | 100 – 2,500 ppm   | 86 10 020          |
| Benzene                        | 1 – 150 ppb   | 86 10 600          |
| Benzene                        | 0.15 – 10 ppm   | 86 10 030          |
| 1.3-Butadiene                  | 25 – 500 ppb  | 86 10 460          |
| 1.3-Butadiene                  | 0.5 – 25 ppm  | 86 10 300          |
| Carbon monoxide                | 2 – 1,000 ppm   | 86 10 080          |
| Carbon dioxide                 | 200 – 50,000 ppm  | 86 10 190          |
| Chlorine                       | 50 – 5,000 ppb  | 86 10 010          |
| Ethylene oxide                 | 25 – 250 ppb  | 86 10 200          |
| Ethylene oxide                 | 0.25 – 10 ppm   | 86 10 580          |
| Formaldehyde                   | 5 – 150 ppb   | 86 10 540          |
| Formaldehyde                   | 0.15 – 3 ppm  | 86 10 100          |
| Hydrochloric acid              | 0,5 – 25 ppm  | 86 10 090          |
| Hydrogen cyanide               | 0,5 – 25 ppm  | 86 10 520          |
| Hydrogen sulfide               | 0.1 – 50 ppm  | 86 10 050          |
| Mercury                        | 0.005 – 0.25 mg/m <sup>3</sup>  | 86 10 350          |
| Nitrogen dioxide               | 0,25 – 25 ppm   | 86 10 120          |
| Nitrous gases                  | 0,25 – 50 ppm   | 86 10 060          |
| Petroleum hydrocarbons         | 10 – 3,000 ppm  | 86 10 270          |
| Sulphur dioxide                | 0,05 – 5 ppm  | 86 10 110          |
| Toluene                        | 10 – 1,000 ppm  | 86 10 250          |
| Xylene                         | 10 – 1,000 ppm  | 86 10 260          |

## Ordering Information

|  |                  |
|--|------------------|
| <b>Dräger X-act® 7000</b>  | <b>86 10 800</b> |
| consisting of: Basic device X-act® 7000 incl. batteries, shoulder strap complete, MicroTube Demo, Torx T10 screwdriver, USB cable 2 m with Mini-connection |                  |
| <b>Pump accessories</b>  |                  |
| Dräger X-act® 7000 Coupler   | 86 10 810        |
| Dräger X-am® Pump (incl. USB cable and power supply)   | 83 27 115        |
| <b>Other accessories</b>   |                  |
| Dräger X-act® 7000 Pre-tube holder   | 37 01 985        |
| Dräger Tubes®, ppb-Booster Basic   | 37 02 013        |
| Tubeopener, TO 7000  | 64 01 200        |
| Shoulder strap, compl.   | 83 26 823        |
| Labelholder for shoulder strap   | 83 26 824        |
| "Silver" Sticker Set, 5 pieces   | 83 27 645        |
| "Blue" Sticker Set, 5 pieces   | 83 27 646        |
| "Red" Sticker Set, 5 pieces  | 83 27 647        |
| "Green" Sticker Set, 5 pieces  | 83 27 648        |
| "Yellow" Sticker Set, 5 pieces   | 83 27 649        |
| Carry case, 470 x 365 x 190 mm, black  | 37 03 690        |
| Display protector film (3 pcs.)  | 83 26 828        |
| Dust and water filter for pump inlet   | 83 19 364        |
| <b>Probes</b>  |                  |
| ES150 Telescopic probe (max. length: 150 cm / 59 in)   | 83 16 533        |
| Telescopic probe 100, incl. adapter<br>(max. length: 100 cm / 39.4 in)   | 83 16 530        |
| Telescopic probe 90 (max. length: 90 cm / 35.4 in)   | 83 16 532        |
| Telescopic leak probe 70 (max. length: 70 cm / 27.6 in)  | 83 16 531        |
| Set probe GP 600 (length: 48 cm / 18.9 in), incl. 1.5 m FKM hose (ID: 3 mm) and a male luer adapter  | 83 28 667        |
| <b>Hoses</b>   |                  |
| PTFE-lined PVC hose, 3 m (9.8 ft)  | 83 26 980        |
| PTFE-lined PVC hose, 15 m (49.2 ft)  | 45 94 679        |
| Replacement hose for probes, 2 m (6.6 ft)  | 83 18 205        |
| FKM hose, inner diameter: 3.2 mm, length: 5 m (16.4 ft)  | 83 25 705        |
| FKM hose, inner diameter: 3.2 mm, length: 10 m (32.8 ft)   | 83 25 706        |
| FKM hose, inner diameter: 3.2 mm, length: 20 m (65.6 ft)   | 83 25 707        |
| FKM hose, inner diameter: 3.2 mm, length: 45 m (147.6 ft)  | 83 28 212        |
| Hose connector, outer diameter: 5 mm (10 pcs.)   | 83 20 087        |
| <b>Adapter</b>   |                  |
| Hose adapter, incl. 40 mm FKM (10 pcs.)  | 83 19 231        |
| Reducer piece, incl. 30 mm FKM (10 pcs.)   | 83 20 086        |
| Luer Adapter, male, 3 mm   | 83 27 641        |

Notes



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## Notes



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