

## 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.



## 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.

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### 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.

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### 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.

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### 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 battery life lasts for more than ten hours of testing and can be read on the display.

## Benefits

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### 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.

## System Components

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### 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-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.

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

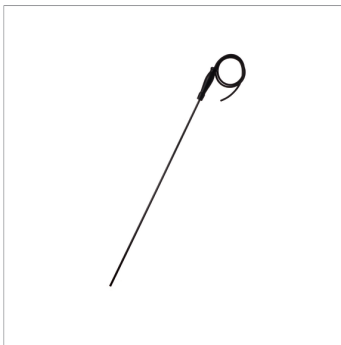
Available in two lengths:

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

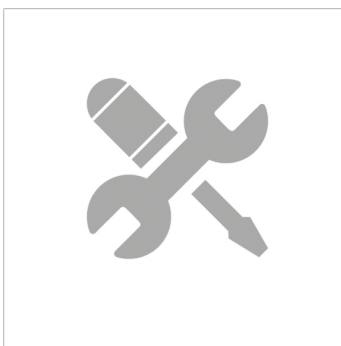


### Pre-tube holder

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.

## 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

D-2335-2016



### 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.

D-2330-2016



### 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.

D-2329-2016



### 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 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 +40 °C	
Storage temperature	-20 to +60 °C (Analyser) +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 (pending)	ATEX/IECEX	II 1G Ex ia IIC T4 Ga
Protection class	IP54, dust- and splash-resistant	

### Dräger MicroTubes

Description	Test range	Test time (min–max)	Part number
Benzene	1 – 150 ppb	100 – 900 seconds	86 10 600
Benzene	0.15 – 10 ppm	25 – 150 seconds	86 10 030
1.3-Butadiene	25 – 500 ppb	200 – 600 seconds	86 10 460
1.3-Butadiene	0.5 – 25 ppm	10 – 280 seconds	86 10 300
Ethylene oxide	25 – 250 ppb	150 – 600 seconds	86 10 200
Ethylene oxide	0.25 – 10 ppm	100 – 500 seconds	86 10 580
Formaldehyde	5 – 150 ppb	360 – 960 seconds	86 10 540
Formaldehyde	0.15 – 3 ppm	300 – 600 seconds	86 10 100
Mercury	0.005 – 0.25 mg/m <sup>3</sup>	240 – 1,200 seconds	86 10 350

## Ordering Information

### Dräger X-act® 7000

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

**86 10 800**

### Pump accessories

Dräger X-act® 7000 Coupler	86 10 810
Dräger X-am® Pump	83 27 100

### Other accessories

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

## Ordering Information

"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 (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
<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

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### CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA  
Moislinger Allee 53–55  
23558 Lübeck, Germany  
[www.draeger.com](http://www.draeger.com)

### REGION EUROPE

Dräger Safety AG & Co. KGaA  
Revalstraße 1  
23560 Lübeck, Germany  
Tel +49 451 882 0  
Fax +49 451 882 2080  
[info@draeger.com](mailto:info@draeger.com)

### REGION MIDDLE EAST, AFRICA

Dräger Safety AG & Co. KGaA  
Branch Office  
P.O. Box 505108  
Dubai, United Arab Emirates  
Tel +971 4 4294 600  
Fax +971 4 4294 699  
[contactuae@draeger.com](mailto:contactuae@draeger.com)

### REGION ASIA PACIFIC

Draeger Singapore Pte. Ltd.  
61 Science Park Road  
The Galen #04-01  
Singapore 117525  
Tel: +65 6872 9288  
Fax: +65 6259 0398  
[asia.pacific@draeger.com](mailto:asia.pacific@draeger.com)

### REGION CENTRAL AND SOUTH AMERICA

Draeger Panamá Comercial  
S. de R.L.  
59 East Street, Nuevo Paitilla,  
House 31, San Francisco Town  
Panama City, Panama  
Tel +507 377-9100 / Fax -9130  
[servicioalcliente@draeger.com](mailto:servicioalcliente@draeger.com)

### REGION NORTH AMERICA

Draeger, Inc.  
3135 Quarry Road  
Telford, PA 18969  
Tel +1 800 4DRAGER  
(+1 800 437 2437)  
Fax +1 215 723 5935  
[info.usa@draeger.com](mailto:info.usa@draeger.com)

Locate your Regional Sales  
Representative at:  
[www.draeger.com/contact](http://www.draeger.com/contact)

