

## Dräger X-act® 5000 Dräger Tube Pump

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



## Benefits

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### Versatile and robust

The Dräger X-act 5000 introduces a new era of gas measurement: Only one device is necessary for measuring and sampling. The automatic tube pump is compatible with Dräger short-term tubes as well as sampling tubes and systems. The robust housing supports the use of the pump to perform the daily measuring tasks under tough conditions. The IS approved (pending) Dräger X-act 5000 can be used for confined space applications and in explosive gas atmospheres.

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### New pump concept

The key principle is the ability to provide the required flow characteristics of the Dräger Short-term Tubes, while also providing the option to be used with Sampling Tubes and Systems requiring constant flow. Compared to the Dräger accuro hand pump, this new concept reduces the average measurement time of the Dräger Short-term Tubes in case of a high number of strokes. The internal pump is also designed to use extension hoses up to a length of 30 meters (98 ft.).

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### Simplicity of operation

The handling of gases, vapors and aerosols has never been easier. The automatic tube pump Dräger X-act 5000 directs the air to be measured through the appropriate Dräger-Tubes effortlessly. It is comfortably carried with one hand or using the shoulder strap and is easily operated, even wearing protective gloves. A simple and intuitive menu structure provides the user efficient operation with just a few button presses. Using the password-protected menu repetitive operating modes can be set.

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### Automatic transfer of measurement parameters

A barcode printed on the label on the backside of a Dräger Short-term Tube box contains all relevant measurement parameters. Simply sliding the barcode over the barcode reader of the pump, automatically transfers the name of the substance to be measured, the number of strokes, and the measuring range to the display. The required steps to carry out the measurement are simplified with the Dräger X-act 5000 and the possibility of making an error is reduced to a minimum.

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### Measurement in technical gases

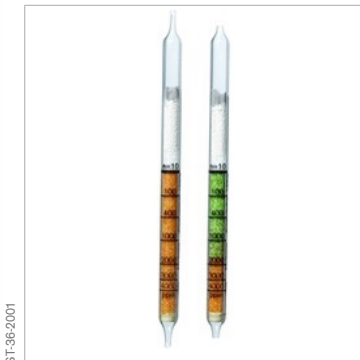
To evaluate measurements in technical gases, the properties of the technical gas must be taken into consideration. Technical gases have a different viscosity than ambient air. Therefore, the flow of the pump must be set accordingly. Following the operating steps in the mode „Measurement in Technical Gases“, the Dräger X-act 5000 will automatically be adjusted to the required flow parameter and the measurement result can be read directly.

## Benefits

### Direct settings for sampling

Depending on the Sampling Tubes or Systems, the required parameters for the test can be set directly, without the need for an external flowmeter. The Dräger X-act 5000 automatically adjusts the flowrate. After setting the sampling time the pump can immediately be started. At the end of the measurement the pump will stop automatically. The set data, the elapsed time and the pumped volume will be indicated on the display.

## System components



### Dräger Short-term Tubes

Tried and tested a million times: Worldwide, the Dräger Short-term Tubes have proven to be a very cost-effective and reliable method for the measurement of gases. Decreasing occupational exposure values, special customer requirements and new legal regulations made it necessary to develop even more sensitive Dräger-Tubes.



### Dräger Sampling Tubes and Systems

The Dräger Sampling Tubes and Systems are very reliable in use even with complex compounds and mixtures of substances.

## System components



ST-1354-2004

### Dräger Liquid Extraction method

Easy, fast and cost-effective: The Dräger Liquid Extraction method (DLE) is a field method used to analyze highly volatile harmful substances in water and other liquids.



ST-1339-2004

### Dräger Aerotest® Simultantest CO<sub>2</sub>

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



ST-1179-2008

### Dräger Aerotest® Simultan HP

Dräger Aerotest® Simultan HP is used to determine the quality of respiratory air in high-pressure applications. In combination with the new Dräger Oil Impactor the system offers a unique quality level for the monitoring of compressed air.



D-6654-2009

### Dräger Aerotest® Alpha

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.

## System components



D-6655-2009

### Dräger MultiTest med. Int.

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.

## Accessories



ST-1990-2005

### Dräger TO 7000

By using the tube opener Dräger TO 7000, conventional Short-term Tubes as well as Ampoule and Double Tubes can be opened with only simple movements and no jagged edges are left behind.



D-12076-2010

### Dräger SO3 Filter

For retaining possible SO<sub>3</sub>, which can occur during measurement with Short-term Tubes.

## Accessories



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### Extension hose 1 m, 3 m, 10 m, 15 m, 30 m

For use in hard-to-access locations such as shafts.



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### Hot air probe

Enables the measurement of extremely hot gases, e.g. in combustion plants.



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### Bar probe 400

Is used for clearance measurements in containers.



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### Vehicle exhaust probe

For measuring exhaust gases.

## Accessories



### Gas detection case

Including Dräger-Tubes & CMS Handbook and equipment plan. To be equipped individually for every application.



### Fumigation case

Determines quickly and easily whether a container is fumigated. Alu case for self-equipment.



### Hot pack holder

Enables the usage of Dräger-Tubes below the indicated temperature limits.

## Related Products



D-19329-2009

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### Dräger-Tube pump accuro

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.



ST-14162-2008

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### Dräger CMS

The world's only Chip Measurement System (CMS) makes spot measurements as easy as 1, 2, 3: insert chip – start measurement – read measurement result on the LCD display. The Dräger CMS combines the advantages of the Dräger-Tubes with those of an optoelectronic analysis system.



## Technical Data

### Operation

Short-term measurements	using Dräger short-term tubes	adjustable, 1 to 199 strokes
	Number of strokes	100 mL
	Stroke volume	
Sample taking	Flow rate range	0.1 to 2.0 L/min Resolution 0.1 to 1.0 L/min: 0.1 L/min ± 5 % Resolution 1.0 to 2.0 L/min: 0.2 L/min ± 5 %
	Sampling time	adjustable, up to 12 hours, depending on flow rate Resolution in steps of 15 minutes (default) or 1 minute
Display	two parts: segment and matrix	
Menu languages	Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Spanish, Swedish	
Use of extension hose	up to 30 meter (98 ft.)	
Dimensions (H x W x D)	approx. 175 x 230 x 108 mm (7" x 9" x 4.25")	
Weight (without battery pack)	approx. 1.6 kg (3.5 lbs)	

### Ambient Conditions

Temperature during storage	-20 to 55 °C (-4 to 131 °F)
Temperature during operation	5 to 40 °C (41 to 104 °F)
Humidity	0 to 95% r. h., non-condensing
Pressure	700 to 1300 hPa (10.2 to 18.9 psi)

### Power Packs

Rechargeable Battery NiMH, T4	7.2 V, 1500 mAh (charging time < 4 hours)
Alkaline Battery Pack, T4	6 AA cells, (see battery pack label for approved battery types)
Battery capacity at 25 °C (77 °F)	Dräger short-term tubes: >1,000 strokes Sample taking: up to 12 hours, depending on adjusted flow rate

### Approvals

ATEX	Ex ia IIC T4 Ga Ex ia I Ma I M 1 / II 1G
MED	Steering Wheel approval 96/98 EC
UL	Class I, Div. 1, Group A, B, C, D Class II, Div. 1, Group F, G 5 °C ≤ Ta ≤ + 40 °C Temp. Code T4 Ex ia
cUL	Class I, Div. 1, Group A, B, C, D Class II, Div. 1, Group F, G 5 °C ≤ Ta ≤ + 40 °C Temp. Code T4 Ex ia
IECEX	Ex ia IIC T4 Ga
CE-mark	according to 2004/108/EC and 94/9/EC
1) Subject to alteration	

### Barcode reader

The Dräger X-act® 5000 has a built-in barcode reader which emits an invisible laser beam during normal operation.

The Dräger X-act® 5000 is a Class 1M LASER Product with Class 3R internal radiation per the requirements of IEC 60825-1 Edition 2.0 (2007).

**INVISIBLE LASER RADIATION • DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS • CLASS 1M LASER PRODUCT**

## Ordering Information

Viewing the laser output with certain optical instruments (for example, eye loupes, magnifiers and microscopes) within a distance of 100 mm may pose an eye hazard.

<b>Order Code</b>	
<b>Dräger X-act® 5000</b> , consists of Dräger X-act® 5000, shoulder strap without power supply	45 23 500
<b>Power Packs</b>	
Rechargeable Battery NiMH, T4	45 23 520
Alkaline Battery Pack, T4 w/o Batteries (6 batteries required)	45 23 525
Alkaline Battery Dräger X-act® 5000	81 03 594
<b>Charging accessories</b>	
Wall-Wart Charger 100 – 240 VAC (worldwide)	45 23 545
Car Charger 12 / 24 V	45 23 511
<b>Accessories</b>	
Extension hose, Dräger accuro & Dräger X-act® 5000, 1 m, incl. adapter for Simultaneous Test Set	64 00 561
Extension hose, Dräger accuro & Dräger X-act® 5000, 3 m, incl. adapter for tubes, adapter for hose in a carrying box	64 00 077
Extension hose, Dräger accuro & Dräger X-act® 5000, 10 m, incl. adapter for tubes, adapter for hose	64 00 078
Extension hose, Dräger accuro & Dräger X-act® 5000, 15 m, incl. adapter for tubes, adapter for hose	64 00 079
Extension hose, Dräger X-act® 5000, 30 m, incl. adapter for tubes, adapter for hose	64 01 175
SO <sub>2</sub> Filter Replacement	81 03 525

## Notes

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## Notes

### CORPORATE HEADQUARTERS

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

### Manufacturer:

Dräger Safety AG & Co. KGaA  
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