

## Dräger X-act® 5000 Automatic 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.



- New Pump Concept
- Simplicity of Operation
- Automatic Transfer of Measurement Parameters
- Measurement in Technical Gases
- Direct Settings for Sampling

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 components of the pump are corrosion resistant and the pump is additionally equipped with a user replaceable filter which traps sulfur trioxide aerosols protecting the pump for up to two years. The display is backlit to enable use of the pump under poor lighting conditions. All Dräger short-term tubes and accessories can be used with the Dräger X-act 5000. The IS approved Dräger X-act 5000 can be used for confined space applications and in explosive gas atmospheres – always ready wherever fast and reliable on-site measurements are required.

### NEW PUMP CONCEPT

The Dräger X-act 5000 is based on a completely 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.).

### 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



Dräger X-act® 5000



Dräger X-act® 5000  
With connected extension hose



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.

#### 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.

#### MEASUREMENT IN TECHNICAL GASES

Dräger short-term tubes are calibrated for measurements in ambient air. 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.

#### 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.



D-12086-2010

**Ease of Operation**  
Even wearing protective gloves



D-12090-2010

**Dräger-Tube® Boxes**  
Barcode printed on the label



D-12061-2010

**Data Transfer**  
Simply sliding the barcode

# Enter a new era of measuring and sampling.

Connection with Tube Swivel

Display

- Segment Display
- Matrix Display

Battery Pack (Drawer)



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Flashing Lights  
Green: End of measurement  
Red: ERROR

Barcode Reader

## ORDER INFORMATION

	Order Code
Dräger X-act 5000, 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>3</sub> Filter Replacement	81 03 525

**TECHNICAL DATA <sup>1)</sup>****Operation**

Short-term measurements	using Dräger short-term tubes Number of strokes adjustable, 1 to 199 strokes Stroke volume 100 mL
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)
<b>Ambient Conditions</b>	
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)
<b>Power Packs</b>	
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
<b>Approvals</b>	
ATEX	Ex ia IIC T4 Ga Ex ia I Ma I M 1 / II 1G
MED	Steering Wheel approval pending
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 Exia
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 Exia
IECEX	Ex ia IIC T4 Ga
CE-mark	according to 2004/108/EC and 94/9/EC

<sup>1)</sup> 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**

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.

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